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36:
37: function GetForegroundWindow: THandle
38:
39: Finds which window is currently the foreground window. The
    foreground window is the window, usually at the top of the Z-order,
    with which the user is currently working with -- i.e., the window
    with the focus. The function returns 0 if an error occurred, or the
    handle of the foreground window if successful.
40:
41: function GetWindowTextLength (hWnd : THandle) : DWORD;
42:
43: Returns the length in characters of a window's text. You can use
    this function in conjunction with GetWindowText to create a string
    just long enough to receive the text. However, this function does
    not include the terminating null character in the window's text in
    the character count. In some instances, this function might report
    a larger text length than actually exists; however, it will never
    report fewer than the actual number of characters.
    GetWindowTextLength does not work with controls owned by other
    programs. To get the window text length of these controls, use the
    WM_GETTEXTLENGTH message instead.
44:
45: Example:
46:
47:     writeln('GetActiveWindow '+ittoa(GetActiveWindow));
48:     writeln('getForegroundWindow: '+ittoa(getForegroundWindow));
49:     SetWindowText (GetActiveWindow, 'new text on window');
50:     writeln('text length test: '+ittoa(length('new text on
    window')));
51:     // writeln(botostr(FlashWindow (GetActiveWindow, true)));
52:     writeln('GetWindowTextLength:
    '+ittoa(GetWindowTextLength(GetActiveWindow)));
53:     >>> 18
54:
55: Explanation:
56:
57: function GetActiveWindow : THandle
58: Returns a handle to your program's currently active window. This
    only works with windows created by your application -- in other
    words, it won't find the active window of other programs. If your
    program is in the background, the function will get the window
    that would be active if the program were active. If an error
    occurs, or if there is no active window to your program, the
    function instead returns 0.
59:
60: function FlashWindow (hwnd : THandle; bInvert : DWORD): BOOL
61: Function FlashWindow( hWnd : HWND; bInvert : BOOL) : BOOL
62:
63: Flashes a window one step. Flashing is where the title bar of the
    window is switched from an active to inactive look (or vice versa)
to get the user
    instead of just once. When you are done flashing, be sure to call
    the function again, this time with bInvert set to 0. The function
    returns 0 if the window's look was inactive before flashing, or 1
if its look was active.

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339:
340: Argos Translate uses OpenNMT for translations, SentencePiece for
tokenization, Stanza for sentence boundary detection, and PyQt for
GUI. Argos Translate can be used as either a Python library,
command-line, or GUI application. LibreTranslate is an API and web-
app built on top of Argos Translate.
341:
342: procedure SIRegister_KLibWindows(CL: TPSPascalCompiler);
343: begin
344: //CL.AddDelphiFunction('Procedure downloadFile(info:
TDownloadInfo; forceOverwrite: bool)');
345: Function getFirstPortAvaliableklib( defaultPort : integer; host :
string) : integer');
346: Function checkIfPortIsAvaliableklib( host : string; port : Word)
: boolean');
347: Function checkIfAddressIsLocalhostklib( address : string) :
boolean');
348: Function getIPFromHostNameklib( hostName : string) : string');
349: Function getIPklib : string');
350: Function checkIfRunUnderWineklib : boolean');
351: Function checkIfWindowsArchitectureIsX64klib : boolean');
352: CL.AddTypes('TPIDCredentials', 'record ownerUserName : string;
domain : string; end');
353: CL.AddTypes('TWindowsArchitectureklib', '( WindowsX86,
WindowsX64 )');
354: Function getWindowsArchitectureklib : TWindowsArchitectureklib');
355: Function checkIfUserIsAdminklib : boolean');
356: Function IsUserAnAdminklib : boolean');
357: CL.AddTypes('TShowWindowType', '( _SW_HIDE, _SW_SHOWNORMAL,
_SW_NORMAL, _SW_S'
358: + 'HOWMINIMIZED, _SW_SHOWMAXIMIZED, _SW_MAXIMIZE,
_SW_SHOWNOACTIVATE, _SW_SHO'
359: + 'W, _SW_MINIMIZE, _SW_SHOWMINNOACTIVE, _SW_SHOWNA, _SW_RESTORE,
_SW_SHOWDEFAULT, _SW_FORCEMINIMIZE, _SW_MAX )');
360: Procedure openWebPageWithDefaultBrowserklib( url : string)');
361: Function shellExecuteOpenklib( fileName : string; params :
string; directory : string; showWindowType : TShowWindowType;
exceptionIfFunctionFails : boolean) : integer');
362: Function shellExecuteExeAsAdminklib( fileName : string; params :
string; showWindowType : TShowWindowType; exceptionIfFunctionFails
: boolean) : integer');
363: Function shellExecuteExeklib( fileName : string; params : string;
showWindowType : TShowWindowType; exceptionIfFunctionFails :
boolean; operation : string) : integer');
364: Function myShellExecuteklib( handle : integer; operation :
string; fileName : string; params : string; directory : string;
showWindowType : TShowWindowType; exceptionIfFunctionFails :
boolean) : integer');
365: Function shellExecuteExCMDAndWaitklib( params : string;
runAsAdmin : boolean; showWindowType : TShowWindowType;
exceptionIfReturnCodeIsNot0 : boolean) : LongInt');
366: Function shellExecuteExAndWaitklib( fileName : string; params :
string; runAsAdmin : boolean; showWindowType : TShowWindowType;
exceptionIfReturnCodeIsNot0 : boolean) : LongInt');
367: Function
executeAndWaitExeklib(fileName:str;params:str;exceptionIfReturnCodeIsNot0:k

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```
368: Function netShareklib( targetDir : string; netName : string;  
netPassw : string; grantAllPermissionToEveryoneGroup : boolean) :  
string);  
369: Procedure addTCP_IN_FirewallExceptionklib(ruleName:string;  
port:Word;description:string;grouping:string; executable: string)  
370: Procedure deleteFirewallExceptionklib( ruleName : string)');  
371: // CL.AddTypeS('TExplicitAccess', 'EXPLICIT_ACCESS_A');  
372: Procedure  
grantAllPermissionsNetToTheObjectForTheEveryoneGroupklib( myObject  
: string)');  
373: Procedure grantAllPermissionsNetToTheObjectForTheUsersGroupklib(  
myObject : string)');  
374: Procedure grantAllPermissionNetToTheObjectklib(  
windowsGroupOrUser:string; myObject:string);  
375: Procedure grantAllPermissionsToTheObjectForTheEveryoneGroupklib(  
myObject : string)');  
376: Procedure grantAllPermissionsToTheObjectForTheUsersGroupklib(  
myObject : string)');  
377: Procedure grantAllPermissionsToTheObjectklib(windowsGroupOrUser:  
string; myObject: string);  
378: Procedure grantAllPermissionsToTheObjectForTheEveryoneGroup2klib(  
myObject : string)');  
379: Procedure grantAllPermissionsToTheObjectForTheUsersGroup2klib(  
myObject : string)');  
380: Procedure grantAllPermissionsToTheObject2klib(  
windowsGroupOrUser: string; myObject:string);  
381: Function checkIfWindowsGroupOrUserExistsklib( windowsGroupOrUser  
: string) : boolean);  
382: Procedure createDesktopLinkklib(fileName:string;  
nameDesktopLink:string;description:string);  
383: Function getDesktopDirPathklib : string);  
384: Procedure copyDirIntoTargetDirklib(sourceDir:string;targetDir  
string;forceOverwrite:boolean);  
385: Procedure copyDirklib( sourceDir : string; destinationDir :  
string; silent : boolean)');  
386: Procedure createHideDirklib( dirName : string; forceDelete :  
boolean)');  
387: Procedure deleteDirectoryIfExistsklib( dirName : string; silent :  
boolean)');  
388: Procedure myMoveFileklib( sourceFileName : string; targetFileName  
: string)');  
389: Procedure createEmptyFileIfNotExistsklib( filename : string)');  
390: Procedure createEmptyFileklib( filename : string)');  
391: Function checkIfIsWindowsSubDirklib( subDir : string; mainDir :  
string) : boolean);  
392: Function getParentDirklib( source : string) : string);  
393: Function getValidFullPathInWindowsStyleklib( path : string) :  
string);  
394: Function getPathInWindowsStyleklib( path : string) : string);  
395: Function getStringWithEnvVariablesReadedklib( source : string) :  
string);  
396: Function setProcessWindowToForegroundklib( processName : string)  
: boolean);  
397: Function getPIDOfCurrentUserByProcessNameklib( nameProcess :  
string): DWORD);
```

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398: Function getWindowsUsernameklib : string');
399: Function checkUserOfProcessklib( userName : String; PID : DWORD)
: boolean');
400: Function getPIDCredentialsklib( PID : DWORD) : TPIDCredentials');
401: Function getPIDByProcessNameklib( nameProcess : string) : DWORD');
402: Function getMainWindowHandleByPIDklib( PID : DWORD) : DWORD');
403: Procedure closeApplicationklib( handle : THandle)');
404: Function
sendMemoryStreamUsing_WM_COPYDATAklib(handle:THandle;data:TMemoryStream):in
405: Function
sendStringUsing_WM_COPYDATAklib(handle:THandle;data:string;msgIdentifier:in
406: Procedure mySetForegroundWindowklib( handle : THandle)');
407: Function checkIfWindowExistsklib( className : string; captionForm
: string) : boolean');
408: Function myFindWindowklib( className : string; captionForm :
string) : THandle');
409: Function checkIfExistsKeyIn_HKEY_LOCAL_MACHINEklib( key : string)
: boolean');
410: Procedure waitForMultipleklib( processHandle:THandle;timeout:
DWORD; modalMode: boolean)');
411: Procedure waitForklib( processHandle : THandle; timeout : DWORD;
modalMode : boolean)');
412: Procedure raiseLastSysErrorMessageklib');
413: Function getLastSysErrorMessageklib : string');
414: Function getLocaleDecimalSeparatorklib : char');
415: Procedure terminateCurrentProcessklib(exitCode:
Cardinal;raiseExceptionEnabled: boolean)');
416: Procedure
myTerminateProcessklib(processHandle:THandle;exitCode:Cardinal;raiseExcepti
417: //Function fixedGetNamedSecurityInfo( pObjectName : LPWSTR;
ObjectType : SE_OBJECT_TYPE; SecurityInfo : SECURITY_INFORMATION;
ppsidOwner, ppsidGroup : PPSID; ppDacl, ppSacl : PPACL; var
ppSecurityDescriptor : PSECURITY_DESCRIPTOR) : DWORD');
418: end;
419:
420:
421: procedure SIRegister_AzuliaUtils(CL: TPSPascalCompiler);
422: begin
423:   CL.AddTypeS('azucharSet', 'set of char');
424:   SIRegister_IShellLink(CL);
425:   SIRegister_TBrowseForFolderDialog(CL);
426:   SIRegister_TSystemRegistry(CL);
427:   SIRegister_TAzuliaStrings(CL);
428:   CL.AddTypeS(TLogFunct', 'Function( const path: string;const SRec:
TSearchRec) : Boolean');
429:   SIRegister_TAzuliaFiles(CL);
430:   SIRegister_TAzuliaSpeaker(CL);
431:   SIRegister_TAzuliaDisk(CL);
432:   SIRegister_TAzuliaHTML(CL);
433:   CL.AddTypeS('GrabType', '( GTSCREEN, GTWINDOW, GTCLIENT )');
434:   CL.AddClassN(CL.FindClass('TOBJECT'),'EInvalidDest');
435:   CL.AddClassN(CL.FindClass('TOBJECT'),'EFCantMove');
436: Function azuBoolToStr( value : boolean) : string');
437: Procedure azuChangeWallpaper( FName : string; IsTiled, IsStretch
: Boolean)');

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438: Function azuDoIExist( WndTitle : string) : Boolean');
439: Procedure azuAlert( Text : string)');
440: Procedure azuTileImage( SourceImage, DestImage : TImage)');
441: Function azuIncChar( iX : Char) : Char');
442: Function azuDecChar( iX : Char) : Char');
443: Procedure azuSaveForm( F : TForm; Filename : string)');
444: Procedure azuLoadForm( F : TForm; Filename : string)');
445: Function azuToggleBool( totoggle : bool) : bool');
446: Function azuremoveTrailingChars( const s : string; chars :
azucharSet) : string');
447: Function azuremoveLeadChars( const s : string; chars :
azucharSet) : string');
448: Function azuremoveChars( const s : string; chars : char) :
string');
449: Procedure azuDelay( MSecs : Integer)');
450: Function azuSHBrowseDialog( title : string; Handle : integer) :
string');
451: Procedure azureregisterfiletype( Extention, REGDesc, UserDesc, Icon,
Appl: string)');
452: Procedure azuRemoveFileType( Extention, RegDesc : string)');
453: Procedure azuGetFunctionNamesFromDLL( DLLName : string; List :
TStrings)');
454: Procedure azuSaveListViewToFile( AListView : TListView; sFileName
: string)');
455: Procedure azuLoadListViewToFile( AListView : TListView; sFileName
: string)');
456: Procedure azuLoadCSV( Filename : string; sg : TStringGrid)');
457: Function azuJPEGDimensions( Filename : string; var X, Y : Word) :
boolean');
458: Procedure azuResizeImage( FileName : string; MaxWidth :
Integer)');
459: Function azuSaveJPEGPictureFile(Bitmap:TBitmap;FilePath,
FileName:string;Quality:Int): Bool
460: Function azuLoadJPEGPictureFile( Bitmap : TBitmap; FilePath,
FileName : string): Boolean');
461: Procedure azuSmoothResize( Src, Dst : TBitmap)');
462: Function azuMsecToStr( Milli : Cardinal) : string');
463: Procedure azuDirToStrings(APath: string; AStrings:TStrings;
WithExt,WithPath: boolean)');
464: Procedure azuSetWallPaper( ImageFileName : string; IsTiled :
boolean)');
465: Function azuGetFileSize( FileName : string) : int64');
466: Function azuGetExeByExtension( sExt : string) : string');
467: Function azuRefreshScreenIcons : Boolean');
468: Function azuIndexToColor( AIndex : integer) : TColor');
469: Function azuColorToIndex( AColor : TColor) : integer');
470: Function azuTitleCase( Text2 : string) : string');
471: Function azuToggleCase( Text2 : string) : string');
472: Function azuSentenceCase( Text2 : string) : string');
473: Procedure azuGrabScreen( bm : TBitMap; gt : GrabType)');
474: Procedure azuSaveStringGrid( StringGrid : TStringGrid; FileName :
String)');
475: Procedure azuLoadStringGrid( StringGrid : TStringGrid; FileName :
String)');
476: Function azuGetInetFile( const fileURL, FileName : String) :
boolean');
```

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477: Procedure azuRunOnStartup( sProgTitle, sCmdLine : string;  

    bRunOnce : boolean)');  

478: Procedure azuRemoveOnStartup( sProgTitle : string)');  

479: CL.AddConstantN('SInvalidDest','String').SetString( 'Destination  

    %s does not exist');  

480: SFCantMove','String').SetString( 'Cannot move file %s');  

481: AzuMsg1','String').SetString( 'File "%s" does not exist!');  

482: AzuMsg2','String').SetString( '"%s" is not a ListView file!');  

483: sr_WindowMetrics','String').SetString( 'Control  

    Panel\Desktop\WindowMetrics\');  

484: sr_ShellIconSize','String').SetString( 'Shell Icon Size');  

485: end;  

486:  

487:  

488: This is what we want to use in maXbox:  

489:  

490: const res = await fetch("https://libretranslate.com/translate", {  

491: method: "POST",  

492: body: JSON.stringify({  

493:   q: "Hello!",  

494:   source: "en",  

495:   target: "es"  

496: })),  

497: headers: { "Content-Type": "application/json" }  

498: });  

499: console.log(await res.json());  

500:  

501: JSON.stringify() converts a value to JSON notation representing  

it: If the value has a toJSON() method, its responsible to define  

what data will be serialized.; Boolean, Number, and String objects  

are converted to the corresponding primitive values during  

stringification, in accord with the traditional conversion  

semantics.  

502:  

503: Then we use our Com-Object from OleVariant at late binding:  

504:  

505: function getPostTranslateLibre3(feedstream, fromlang, tolang:  

string): string;  

506: var  

507:   Url, aAPI_KEY, source: string;  

508:   jo, locate: TJSONObject;  

509:   httpReq,hr: Olevariant;  

510:   strm: TStringStream;  

511: begin  

512:   httpReq:= CreateOleObject('WinHttp.WinHttpRequest.5.1');  

513:   // Open the HTTPs req. connection.  

514:   try  

515:     hr:= httpReq.Open('POST',  

'https://libretranslate.pussthecat.org/translate', false);  

516:     httpReq.setRequestHeader('user-agent', CUSERAGENT );  

517:     httpReq.setRequestHeader('content-type','application/x-www-  

form-urlencoded');  

518:     if hr = S_OK then HttpReq.Send('q='+HTTPEncode(feedstream)+  

519: '&source='+fromlang+'&target='+tolang);

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520:     If HttpReq.Status = 200 Then
521:         result:= HttpReq.responseText
522:     Else result:= 'Failed at getting
response:'+ittoa(HttpReq.Status)+HttpReq.responseText;
523:         //writeln('debug response '+HttpReq.GetAllResponseHeaders);

524:     finally
525:         httpreq:= unassigned;
526:     end;
527: end;
528:
529: For example from en to de:
530: Germany's conundrum over its ties with USA
531: Deutschlands Rätsel um seine Beziehungen zu den USA
532:
533: writeln(getPostDetectLang('con mucho cuidado'));
534:   [{"confidence":94.0,"language":"es"}]
535:
536: writeln(utf8toAnsi(getPostTranslateLibre3('It is important to note
this does nothing to prevent someone from making an API request
with your key,', 'en', 'es'))); //}
537:   writeln(utf8toAnsi(getPostTranslateLibre3('Germany''s
conundrum over its ties with USA,',
538:                                             'en',
'it')));
539:   writeln(utf8toAnsi(getPostTranslateLibre3('Germany''s
conundrum over its ties with USA,',
540:                                             'en',
'fr')));
541:   writeln(utf8toAnsi(getPostTranslateLibre3('Conundrum', 'en',
'de')));
542:
543: {"translatedText":"Es importante se\u00flalar que esto no hace
nada para evitar que alguien haga una solicitud de API con su
clave,"}
544: {"translatedText":"Il conundrum tedesco sui suoi legami con gli
Stati Uniti,"}
545: {"translatedText":"Le conundrum allemand sur ses liens avec les
USA,"}
546: {"translatedText":"Conundrum"}
547:
548: What I did not resolve is the hex unicode: \u00f1 in Es importante
se\u00flalar que esto no hace
549: https://www.compart.com/en/unicode/U+00F1
550: U+00F1 is the unicode hex value of the character Latin Small
Letter N with Tilde. Char U+00F1, Encodings, HTML Entitys:ñ, ñ, ñ,
UTF-8 (hex), UTF-16 (hex), UTF-32 (hex).
551: This question relates to versions of Delphi below 2009 (ie without
Unicode support built in). I have a specification that requires me
to transmit a Unicode encoded string over a TCP connection.
552: So the last word seems type unknown to argos: Definitions of
conundrum
553: noun 1 a confusing and difficult problem or question.
554: "one of the most difficult conundrums for the experts"
555: Translations of conundrum - Part of speech Translation Reverse
translations Frequency

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556: help_outline:
557: noun das Rätsel as puzzle, mystery, riddle, enigma, conundrum,
    problem
558:
559: LibreTranslate supports per-user limit quotas, e.g. you can issue
    API keys to users so that they can enjoy higher requests limits
    per minute (if you also set --req-limit). By default all users are
    rate-limited based on --req-limit, but passing an optional api_key
    parameter to the REST endpoints allows a user to enjoy higher
    request limits.
560:
561: Then we add some business goal to the service:
562: - a language translator/detector to fulfill a sentiment cluster
    analysis
563:
564: The idea behind POST microservices is that some types of
    applications become easier to build and maintain when they are
    broken down into smaller, composable pieces which work together.
    Each component is developed separately, and the application is
then simply the sum of its constituent components.
565: For example we get a list of the astronauts currently in space:
566:
567: //https://www.codeproject.com/Articles/5319146/How-to-Use-Rest-
    API-with-Python
568: procedure getAstronautAPI;
569: var res: string; i:integer;
570: begin
571: with TWinApiDownload.create do begin
572:     Useragent:= 'Mozilla/4.0 (compatible; MSIE 7.0; Windows NT
    5.1';
573:     Url:= 'http://api.open-notify.org/astros.json';
574:     Download1(res);
575:     with TJSONObject.create4(res) do begin
576:         //writeln(tostring2(2,3))
577:         if getstring('message') = 'success' then
578:             for i:= 0 to getJSONArray('people').length-1 do
579:                 writeln(itoa(i)+':'+getJSONArray('people').getJSONObject(i).getString('name

580:         free;
581:     end;
582:     free; //ApiDownload
583: end;
584: end;
585:
586: >>>
587: 0:Raja Chari
588: 1:Tom Marshburn
589: 2:Kayla Barron
590: 3:Matthias Maurer
591: 4:Oleg Artemyev
592: 5:Denis Matveev
593: 6:Sergey Korsakov
594: 7:Michael Lopez-Alegria
595: 8:Larry Connor

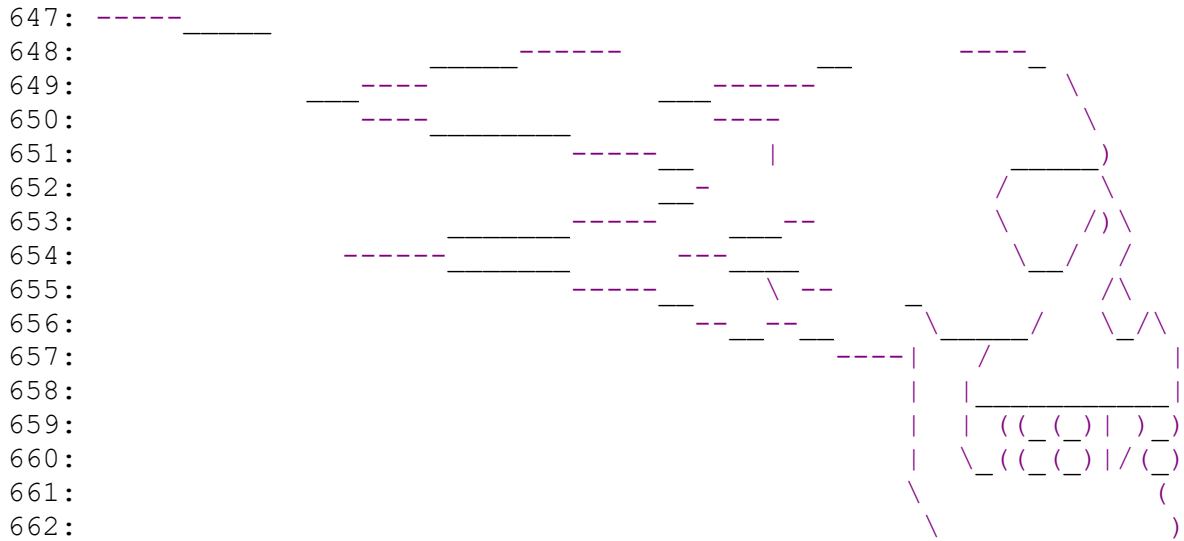
```



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637:   Doc:
638:   https://rapidapi.com/hub
639:   http://text-processing.com/demo/sentiment/
640:   https://opensource.com/resources/what-are-microservices
641:   https://sourceforge.net/projects/alcinoe/
642:   http://fundamentals.sourceforge.net/unicode.html
643:
644:   http://www.softwareschule.ch/examples/1142\_list\_collections\_pydemo42.txt
645:
646:   http://www.softwareschule.ch/examples/1145\_271\_closures\_study\_op\_sys\_tut
647:   https://github.com/LibreTranslate/LibreTranslate#mirrors

```



```

665: namespace RegExApplication
666:     {
667:         class Program
668:         {
669:             private static void showMatch(string text, string expr)
670:             {
671:                 int arex = 46;
672:                 Console.WriteLine("The Expression: " + expr + '
'+arex);
673:                 MatchCollection mc = Regex.Matches(text, expr);
674:                 foreach (Match m in mc)
675:                 {
676:                     Console.WriteLine(m);
677:                 }
678:             }
679:             static void Main(string[] args)
680:             {
681:                 string str = "A Thousand Splendid Suns";
682:                 Console.WriteLine("Matching words that start with
'S': ");
683:                 showMatch(str, @"^\bS\S*");
684:                 FileIOApplication.FileProgram.Mainfiler();
685:                 BinaryFileApplication.Program.Mainbinary();
686:                 WindowsFileApplication.Program.Mainwin();
687:                 //
DelegateAppl.BoilerEventAppl.RecordBoilerInfo.Mainboiler();

```

```

688:         //DelegateAppl.TestDelegate.MainDelegate(["Arg 1",
"Arg 2", "Arg 3"]);
689:         // DelegateAppl.TestDelegate.MainDelegate("Arg
3");
690:
691:         //System.Windows.Input.ICommand.Equals.
692:
693:         Console.ReadKey();
694:         foreach (var arg in args)
695:         {
696:             Console.WriteLine(arg);
697:         }
698:         /* for(int i = 0; i < args.length; i++) {
699:             Console.WriteLine(args[i]);
700:         }
701:         Console.ReadKey();*/
702:         //205
703:     }
704: }
705: }
706:
707: def generate_power_func(n):
708:     print "id(n): %X" % id(n)
709:     def nth_power(x):
710:         return x**n
711:     print "id(nth_power): %X" % id(nth_power)
712:     return nth_power
713:
714: >>> raised_to_4 = generate_power_func(4)
715: id(n): CCF7DC
716: id(nth_power): C46630
717: >>> repr(raised_to_4)
718: '<function nth_power at 0x00C46630>'
719:
720: def generate_power_func(n):
721:     print "id(n): %X" % id(n)
722:     def nth_power(x):
723:         return x**n
724:     print "id(nth_power): %X" % id(nth_power)
725:     return nth_power
726:
727: >>> raised_to_4 = generate_power_func(4)
728: id(n): CCF7DC
729: id(nth_power): C46630
730: >>> repr(raised_to_4)
731: '<function nth_power at 0x00C46630>'
732:
733: maXbox4
734: Total of Function Calls: 35771
735: SHA1: 4.7.6.10 30bace36b037686509bbbee256e22daa52b3df70
736: CRC32: 500F69DD: 31.8 MB (33,400,088 bytes)
737: ZIP maXbox4.zip SHA1: 9DA15BFD72471108FCF746669C6AFD96E9A0E54C
738:

```