**ASP** – a server-side technology for creating dynamic web pages that only lets you use scripting languages

* ASP.NET – a server-side technology for creating dynamic web pages that lets you use any fully-fledged programming language supported by .NET
* VB.NET – our chosen programming language for writing code in ASP.NET

**Installing ASP**: ASP is part of the Internet Information Server (IIS) package that comes with Microsoft operating system.

Control panel>programs and features>Turn Windows features on or off> select IIS and install.

To verify IIS is installation > open IE and type : <http://localhost>

Setup: save all files in inetpub/wwwroot >

**ASP script:** all ASP code should be written in <% %> tags.

We can use VB scripting language or JavaScript. VBScript is default scripting language if we want to use JavaScript. Include language <% Language=”javascript” code %>

**Variables:**

Dim myVar1

Dim myVar2a

**Arrays**

Dim myFixedArray(3) 'Fixed size array

Dim myDynArray() 'Dynamic size array

**Operators:**

**Arithmetic Operators:**

|  |  |  |  |
| --- | --- | --- | --- |
| + | Addition | myNum = 3 + 4 | myNum = 7 |
| - | Subtraction | myNum = 4 - 1 | myNum = 3 |
| \* | Multiplication | myNum = 3 \* 2 | myNum = 6 |
| / | Division | myNum = 9 / 3 | myNum = 3 |
| ^ | Exponential | myNum = 2 ^ 4 | myNum = 16 |
| Mod | Modulus | myNum = 23 Mod 10 | myNum = 3 |
| - | Negation | myNum = -10 | myNum = -10 |
| \ | Integer Division | myNum = 9 \ 3 | myNum = 3 |

**Comparison Operators:**

|  |  |  |  |
| --- | --- | --- | --- |
| = | Equal To | 4 = 3 | False |
| < | Less Than | 4 < 3 | False |
| > | Greater Than | 4 > 3 | True |
| <= | Less Than Or Equal To | 4 <= 3 | False |
| >= | Greater Than Or Equal To | 4 >= 3 | True |
| <> | Not Equal To | 4 <>3 | True |

**Logical Operators:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Operator** | **English** | **Example** | **Result** |
| And | Both Must be TRUE | True and False | False |
| Or | One Must be TRUE | True or False | True |
| Not | Flips Truth Value | Not True | False |

**String Operators**

|  |  |  |  |
| --- | --- | --- | --- |
| & | String Concatenation | string4 = "Bob" & " runs" | string4 = "Bob runs" |

**if statement:**

<%

Dim myNum

myNum = 6

If myNum = 6 Then

Response.Write("Variable myNum = 6")

End If

%>

**If else conditional statement:**

<%

Dim myNum

myNum = 23

If myNum = 6 Then

Response.Write("Variable myNum = 6")

Else

Response.Write("\*\*Variable myNum = " & myNum)

End If

%>

**If elseif:**

<%

Dim myFastfood

myFastfood = "JBox"

If myFastfood = "McD's" Then

Response.Write("Happy Meal Por Favor!")

ElseIf myFastfood = "JBox" Then

Response.Write("Two tacos please!")

Else

Response.Write("Foot-long turkey sub.")

End If

%>

**Select case:**

<%

Dim myNum

myNum = 454

Select Case myNum

Case 2

Response.Write("myNum is Two")

Case 3

Response.Write("myNum is Five")

Case Else

Response.Write("myNum is " & myNum)

End Select

%>

**For:**

<%

Dim myDynArray() 'Dynamic size array

ReDim myDynArray(1)

myDynArray(0) = "Albert Einstein"

myDynArray(1) = "Mother Teresa"

ReDim Preserve myDynArray(3)

myDynArray(2) = "Bill Gates"

myDynArray(3) = "Martin Luther King Jr."

For Each item In myDynArray

Response.Write(item & "<br />")

Next

%>

**Session Object:** allows us to keep information specific to each of visitors to site.

**Session variable:**

<%

'Start the session and store information

Session("TimeVisited") = Time()

Response.Write("You visited this site at: " & Session("TimeVisited"))

%>

**Session id :** is the unique identifier that is automatically created when session starts for given visitor.

<%

Dim mySessionID

mySessionID = Session.SessionID

%>

**Session timeout:**

<%

Session.Timeout = 240

Response.Write("The timeout is: " & Session.Timeout)

%>

**Cookies:** are used to store information specific to a visitor of the website. This cookies is stored on the user’s computer for an extended amount of time.[ key/value pair]

<%

'create the cookie

Response.Cookies("brownies") = 13

%>

**Retrieving cookie:**

<%

Dim myBrownie

'get the cookie

myBrownie = Request.Cookies("brownies")

Response.Write("You ate " & myBrownie & " brownies")

%>

**Asp form Get:** we can process information gathered by an HTML form and use ASP code to make decisions based on this information to create dynamic web pages.

**Create an html form:**

<form method="GET" action="tizagGet.asp">

Name <input type="text" name="Name"/>

Age <input type="text" name="Age"/>

<input type="submit" />

</form>

**QueryString variables:** form data we want reside within Request Object’s QueryString collection.

<%

Dim name, age

name = Request.QueryString("Name")

age = Request.QueryString("Age")

Response.Write("Name: " & name & "<br />")

Response.Write("Age: " & age & "<br />")

%>

**Asp from Post:**

<form method="POST" action="tizagPost.asp">

Name <input type="text" name="Name"/>

Age <input type="text" name="Age"/>

<input type="submit" />

</form>

**Request.Form**

<%

Dim name, age

name = Request.Form("Name")

age = Request.Form("Age")

Response.Write("Name: " & name & "<br />")

Response.Write("Age: " & age & "<br />")

%>

**ASP email form:**

<form method="POST" action="tizagEmail.asp">

To <input type="text" name="To"/> <br />

From <input type="text" name="From"/> <br />

Subject <input type="text" name="Subject"/> <br />

Body <textarea name="Body" rows="5" cols="20" wrap="physical" >

</textarea>

<input type="submit" />

</form>

**ASP email processor:**

<%

'Sends an email

Dim mail

Set mail = Server.CreateObject("CDO.Message")

mail.To = Request.Form("To")

mail.From = Request.Form("From")

mail.Subject = Request.Form("Subject")

mail.TextBody = Request.Form("Body")

mail.Send()

Response.Write("Mail Sent!")

'Destroy the mail object!

Set mail = nothing

%>

**ASP ADO:** Activex Data Objects are collection of components that can be used in ASP programs.

ADO is used to communicate and manipulate a data bases.

<%

Dim myConn

Set myConn = Server.CreateObject("ADODB.Connection")

myConn.Open = ("DRIVER={Microsoft Access" &\_" Driver (\*.mdb)};DBQ=" &\_

"C:\Inetpub\wwwroot\tizagASP\tizag.mdb;")

myConn.Close()

Set myConn = nothing

%>