**Loop date Time**

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

namespace ConsoleApplication1

{

class Program

{

static void Main(string[] args)

{

int count;

System.Console.WriteLine("Enter a integer number:");

count = Convert.ToInt32(Console.ReadLine());

if (count < 5 && count >= 0)

{

for (int i = 0; i < 10; i++)

System.Console.WriteLine("i = " + i);

}

else

{

bool found = false;

int numOfTimes = 0;

while (!found)

{

numOfTimes++;

int min = DateTime.Now.Minute;

int sec = DateTime.Now.Second;

System.Console.WriteLine("min = " + min + ";sec = " + sec);

if (min % 2 == 0 && sec % 2 == 0)

found = true;

}

System.Console.WriteLine("numOfTimes = " + numOfTimes);

}

}

}

}

**Arthmetic calculator**

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

namespace Assignment2

{

class Program

{

static void Main(string[] args)

{

int setOfnumbers;

Console.WriteLine("Please enter a how many numbers you want to enter:");

setOfnumbers = Convert.ToInt32(Console.ReadLine());

if (setOfnumbers < 3)

{

Console.WriteLine("Please give a correct input, median cannot be calculated");

}

else

{

Console.WriteLine("Now enter the integer numbers:");

int[] numbers = new int[setOfnumbers];

for (int i = 0; i < numbers.Length; i++)

{

numbers[i] = Convert.ToInt32(Console.ReadLine());

}

Array.Sort(numbers);

Console.WriteLine("The sorted numbers are");

foreach (int i in numbers) Console.WriteLine(i + " ");

int max = numbers.Max();

int min = numbers.Min();

Console.WriteLine("Maximum is: " +max);

Console.WriteLine("Minimum is: " +min);

int range = (max) - (min);

Console.WriteLine("Range is: " + range);

float mean = CalculateMean(setOfnumbers, numbers);

float median = CalculateMedian(numbers);

Console.WriteLine("Mean is: " +mean);

Console.WriteLine("Median is: " + median);

int calculatedMode = CalculateMode(numbers, setOfnumbers);

if (calculatedMode != min)

{

Console.WriteLine("Mode is: " +calculatedMode);

}

else

{

Console.WriteLine("No mode!!!");

}

float standardDeviation = CalculateStandardDeviation(numbers, mean);

Console.WriteLine("Standard Deviation is: " +standardDeviation);

}

}

public static float CalculateMean(int setOfnumbers,int[] numbers)

{

int sum = 0;

int i = 0;

while (i < setOfnumbers)

{

sum = sum + numbers[i];

i++;

}

float calculatedMean = (float)sum / setOfnumbers;

return calculatedMean;

}

public static float CalculateMedian(int[] numbers)

{

float median = 0;

int size = numbers.Length;

int mid = size / 2;

median = (size % 2 != 0) ? (float)numbers[mid] : ((float)numbers[mid-1] + (float)numbers[mid]) / 2;

return median;

}

public static int CalculateMode(int[] numbers, int setOfNumbers)

{

int i;

int j;

int tmp;

int max =0;

int maxindex =0;

int[] temparray = new int[setOfNumbers];

for ( i = 0; i < temparray.Length; i++)

{

temparray[i] = 0;

}

for (i = 0; i < numbers.Length; i++)

{

for (j = 0; j < numbers.Length; j++)

{

if (numbers[i] == numbers[j])

{

temparray[i] += 1;

}

}

}

for (i = 0; i < temparray.Length; i++)

{

if (temparray[i] > max)

{

max = temparray[i];

maxindex = i;

}

}

return numbers[maxindex];

}

public static float CalculateStandardDeviation(int[] numbers, float mean)

{

float variance = 0;

for (int i = 0; i < numbers.Length; i++)

{

variance = variance + (float)Math.Pow(numbers[i] - mean, 2);

}

float calculatedStandardVariation = (float)Math.Sqrt(variance / (numbers.Length - 1));

return calculatedStandardVariation;

}

}

}

**Employee Query String Default.aspx**

<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="Default.aspx.cs" Inherits="WebApplication1.WebForm1" %>

<!DOCTYPE html>

<html xmlns="http://www.w3.org/1999/xhtml">

<head runat="server">

<title>Total Pay</title>

</head>

<body>

<%

double totalPayEmp;

double rateofPay = Convert.ToDouble(Request.QueryString["rateOfPay"]);

int hoursWorked = Convert.ToInt32(Request.QueryString["hoursworked"]);

if (hoursWorked <= 40)

{

totalPayEmp = rateofPay \* hoursWorked;

}

else

{

double extraHours;

extraHours = hoursWorked - 40;

totalPayEmp = (rateofPay \* 40) + (1.5\*rateofPay)\*extraHours;

}

Response.Write("<b>Employee Name: " +Request.QueryString["empName"]);

Response.Write("<br/> <br/> Employee SSN: " + Request.QueryString["SSN"]);

Response.Write("<br/> <br/>The total pay of an Employee is: " + string.Format("{0:C}", totalPayEmp));

%>

</body>

</html>

**Arthmetic Web App**

**HTML Page**

<!DOCTYPE html>

<html xmlns="http://www.w3.org/1999/xhtml">

<head>

<title>Arthmetic Calculator</title>

</head>

<body>

<form action="Default.aspx" method="get">

<div>

<h1>Arthmetic Calculation</h1>

<h3>You can find out maximum, minimum, mean, median, mode and standard deviation here</h3>

<p><b>Please enter the numbers seperated by space</b></p>

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

<input id="Button1" type="submit" value="Click to Calculate" />

</div>

</form>

</body>

</html>

**Default.aspx**

String inputFromText = Request.QueryString["numbers"];

String[] arrNumbers = (inputFromText.Split(' '));

int[] numbers = new int[arrNumbers.Length];

numbers = Array.ConvertAll(arrNumbers, Int32.Parse);