**ASSIGNMENT 1**

*ASSIGNMENT 1*

1):

using System;

class example

{

static void Main()

{

Console.WriteLine("Hello: Atmiya Students");

}

}

--------------------------------------------------------------------------

2):

using System;

class sum

{

static void Main()

{

int i = 3;

int j = 5;

// int add= i + j;

Console.WriteLine("sum is="+(i+j));

}

}

--------------------------------------------------------------------------

3):

using System;

class div

{

static void Main()

{

int i = 10;

int j = 2;

Console.WriteLine("division is=" + (i / j));

}

}

--------------------------------------------------------------------------

4):

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

namespace EX4

{

class Program

{

static void Main(string[] args)

{

float i = -1;

int j = 4;

int k = 6;

Console.WriteLine("ans is=" + (i + j \* k));

int a = 35;

int b = 5;

float c = 7;

Console.WriteLine("ans is=" + (a + b) % c);

int p = 14;

int q = -4;

int r =6;

int s = 11;

Console.WriteLine("ans is=" + (p + q\* r/s));

int t = 2;

int u =15;

int v = 6;

int w = 1;

int x = 7;

int y = 2;

Console.WriteLine("ans is=" + (t + u / v \* w - x % y));

}

}

}

--------------------------------------------------------------------------

5):

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

namespace EX5

{

class Program

{

static void Main(string[] args)

{

int i, j,temp;

Console.Write("Input the First Number :");

i = int.Parse(Console.ReadLine());

Console.Write("Input the First Number :");

j = int.Parse(Console.ReadLine());

temp = i;

i = j;

j = temp;

Console.WriteLine("After swaping:");

Console.WriteLine("output the First Number :" + (i));

Console.WriteLine("output the second Number :" + (j));

}

}

}

--------------------------------------------------------------------------

6):

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

namespace EX6

{

class Program

{

static void Main(string[] args)

{

int i, j, k,sum;

Console.Write("Input the first number to multiply:");

i = int.Parse(Console.ReadLine());

Console.Write("Input the second number to multiply:");

j = int.Parse(Console.ReadLine());

Console.Write("Input the third number to multiply:");

k = int.Parse(Console.ReadLine());

sum = i \* j \* k;

Console.WriteLine("output is:" + (sum));

}

}

}

--------------------------------------------------------------------------

7):

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

namespace EX7

{

class Program

{

static void Main(string[] args)

{

int i, j,a,b,c,d,mod;

Console.Write("Input the first number:");

i = int.Parse(Console.ReadLine());

Console.Write("Input the first number:");

j = int.Parse(Console.ReadLine());

a = i + j;

b = i - j;

c = i \* j;

d = i / j;

mod = i % j;

Console.WriteLine(i + " "+"+" +" "+ j + " " + "=" + a);

Console.WriteLine(i + " " + "-" + " " + j + " " + "=" + b);

Console.WriteLine(i + " " + "\*" + " " + j + " " + "=" + c);

Console.WriteLine(i + " " + "/" + " " + j + " " + "=" + d);

Console.WriteLine(i + " " + "%" + " " + j + " " + "=" + mod);

}

}

}

--------------------------------------------------------------------------

8):

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

namespace EX8

{

class Program

{

static void Main(string[] args)

{

int a,i;

Console.WriteLine("Enter value:");

a = int.Parse(Console.ReadLine());

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

{

Console.WriteLine(a + " " + "\*"+" " + i + " " + "=" + (a\*i));

}

}

}

}

--------------------------------------------------------------------------

9):

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

namespace EX9

{

class Program

{

static void Main(string[] args)

{

int i, j, k, l,avg;

Console.Write("Enter the First number:");

i = int.Parse(Console.ReadLine());

Console.Write("Enter the First number:");

j= int.Parse(Console.ReadLine());

Console.Write("Enter the First number:");

k = int.Parse(Console.ReadLine());

Console.Write("Enter the First number:");

l = int.Parse(Console.ReadLine());

avg = (i + j + k + l) / 4;

Console.WriteLine("avg:" + i + " " + j + " " + k + " " + l + " " + "=" + avg);

}

}

}

--------------------------------------------------------------------------

10):

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

namespace EX10

{

class Program

{

static void Main(string[] args)

{

int i, j, k,a,b;

Console.Write("Enter first number:");

i = int.Parse(Console.ReadLine());

Console.Write("Enter first number:");

j = int.Parse(Console.ReadLine());

Console.Write("Enter first number:");

k= int.Parse(Console.ReadLine());

a=(i+j)\*k;

b=(i\*j)+(j\*k);

Console.WriteLine("answer is:"+a);

Console.WriteLine("answer is:"+b);

}

}

}

--------------------------------------------------------------------------

11):

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

namespace EX11

{

class Program

{

static void Main(string[] args)

{

int i;

Console.Write("Enter your age:");

i = int.Parse(Console.ReadLine());

Console.WriteLine("You look older than:" + Math.Abs(i));

}

}

}

--------------------------------------------------------------------------

12):

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

namespace EX\_12

{

class Program

{

static void Main(string[] args)

{

int a,i,j,k;

Console.Write("Enter a digit:");

a = int.Parse(Console.ReadLine());

Console.WriteLine("Expected output:");

for (k = 1; k <= 2; k++)

{

for (i = 1; i <= 4; i++)

{

Console.Write(a + " ");

}

Console.WriteLine(" ");

for (j = 1; j <= 4; j++)

{

Console.Write(a);

}

Console.WriteLine(" ");

}

}

}

}

--------------------------------------------------------------------------

13):

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

namespace EX13

{

class Program

{

static void Main(string[] args)

{

int i,a,b,c;

Console.Write("Enter the value:");

i = int.Parse(Console.ReadLine());

for (a = 1; a <= 3; a++)

{

Console.Write(i);

}

Console.WriteLine(" ");

for (c = 1; c <= 3; c++)

{

for (b = 1; b <= 2; b++)

{

Console.Write(i + " ");

}

Console.WriteLine(" ");

}

for (a = 1; a <= 3; a++)

{

Console.Write(i);

}

Console.WriteLine(" ");

}

}

}

--------------------------------------------------------------------------

14):

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

namespace Ex14

{

class Program

{

static void Main(string[] args)

{

int i, j;

double k;

Console.Write("Enter the amount of celsius:");

i = int.Parse(Console.ReadLine());

j = i + 273;

Console.WriteLine("Kelvin:" + (j));

k= (int) i\*1.8+32;

Console.WriteLine("Faranhit:" + (k));

}

}

}

--------------------------------------------------------------------------

15):

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

namespace EX15

{

class Program

{

static void Main(string[] args)

{

Console.WriteLine("Test Data:");

Console.WriteLine("ATMIYA UNIVERSITY");

Console.WriteLine(" ");

Console.WriteLine("Simple Output:");

Console.WriteLine(remove\_char("ATMIYA UNIVERSITY", 2)+" " );

Console.WriteLine(remove\_char("ATMIYA UNIVERSITY", 7));

}

public static string remove\_char(string str, int n)

{

return str.Remove(n, 1);

}

}

}

--------------------------------------------------------------------------

16):

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

namespace EX16

{

class Program

{

static void Main(string[] args)

{

string str;

Console.Write("input string line:");

str = Console.ReadLine();

if(str.Length>=1)

{

var s=str.Substring(0,1);

Console.Write(s +" "+ str +" "+ s);

}

}

}

}

--------------------------------------------------------------------------

17):

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

namespace EX17

{

class Program

{

static void Main(string[] args)

{

int i,j;

Console.Write("Input First Integer:");

i = int.Parse(Console.ReadLine());

Console.Write("Input second Integer:");

j = int.Parse(Console.ReadLine());

Console.Write("Check if one is negative and one is positive: ");

Console.WriteLine(" ");

if (i <= 0 && j >= 0)

{

Console.WriteLine("true");

}

else

{

Console.WriteLine("False");

}

}

}

}

--------------------------------------------------------------------------

18):

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

namespace EX18

{

class Program

{

static void Main(string[] args)

{

int a, b,d,e;

Console.Write("enter first value:");

a = int.Parse(Console.ReadLine());

Console.Write("enter second value:");

b = int.Parse(Console.ReadLine());

if (a == b)

{

d = a + b;

Console.Write(3 \* d);

}

else

{

e = a + b;

Console.Write(e);

}

}

}

}

--------------------------------------------------------------------------

19):

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

namespace EX19

{

class Program

{

static void Main(string[] args)

{

int a, b, c, d,e,f;

Console.Write("enter first value:");

a = int.Parse(Console.ReadLine());

Console.Write("enter second value:");

b = int.Parse(Console.ReadLine());

if (a >= b)

{

c = (a - b);

d = 2 \* c;

Console.WriteLine(d);

}

else

{

e = (a - b);

f = Math.Abs(e);

Console.WriteLine(f);

}

}

}

}

--------------------------------------------------------------------------

20):

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

namespace EX20

{

class Program

{

static void Main(string[] args)

{

int a, b,i;

Console.Write("Enter Integer:");

a = int.Parse(Console.ReadLine());

Console.Write("Enter Integer:");

b = int.Parse(Console.ReadLine());

i=a+b;

if(a==20 || b==20 )

{

Console.Write("one interger is 20 ");

}

else if (i == 20)

{

Console.Write("sum is 20:");

}

else

{

Console.Write("Not same as syntax");

}

}

}

}

--------------------------------------------------------------------------

21):

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

namespace EX21

{

class Program

{

static void Main(string[] args)

{

int a;

Console.Write("Enter first value:");

a = int.Parse(Console.ReadLine());

if (Math.Abs(100 - a) <= 20 || Math.Abs(200 - a) <= 20)

{

Console.WriteLine("True");

}

else

{

Console.WriteLine("False");

}

}

}

}

--------------------------------------------------------------------------

22):

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

namespace EX22

{

class Program

{

static void Main(string[] args)

{

Console.WriteLine("WRITE A C# SHARPE PROGRAM TO DISPLAY THE FOLLOWING PATTERN USING THE ALPHABATE");

string i="WRITE A C# SHARPE PROGRAM TO DISPLAY THE FOLLOWING PATTERN USING THE ALPHABATE";

Console.WriteLine(" ");

Console.WriteLine("after update:");

Console.WriteLine(i.ToLower());

}

}

}

--------------------------------------------------------------------------

23):

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

namespace EX23

{

class Program

{

static void Main(string[] args)

{

int i;

for (i = 1; i <= 99; i++)

{

Console.WriteLine(i);

i++;

}

}

}

--------------------------------------------------------------------------

24):

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

namespace EX24

{

class Program

{

static void Main(string[] args)

{

Console.WriteLine("\nSum of the first 500 prime numbers: ");

long sum = 0;

int ctr = 0;

int n = 2;

while (ctr < 500)

{

if (isPrime(n))

{

sum += n;

ctr++;

}

n++;

}

Console.WriteLine(sum.ToString());

}

public static bool isPrime(int n)

{

int x = (int)Math.Floor(Math.Sqrt(n));

if (n == 1) return false;

if (n == 2) return true;

for (int i = 2; i <= x; ++i)

{

if (n % i == 0) return false;

}

return true;

}

}

}

--------------------------------------------------------------------------

25):

using System;

public class

EX25

{

public static void Main()

{

Console.Write("Input a number(integer): ");

int n = Convert.ToInt32(Console.ReadLine());

int sum = 0;

while (n != 0)

{

sum = sum + n % 10;

n /= 10;

}

Console.WriteLine("Sum of the digits of the said integer: " + sum);

}

}

--------------------------------------------------------------------------

26):

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

namespace EX26

{

class Program

{

static void Main(string[] args)

{

string line = "Display the pattern like pyramid using the alphabet.";

Console.WriteLine("\nOriginal String: " + line);

string result = "";

List<string> wordsList = new List<string>();

string[] words = line.Split(new[] {

" "

}, StringSplitOptions.None);

for (int i = words.Length - 1; i >= 0; i--)

{

result += words[i] + " ";

}

wordsList.Add(result);

foreach (String s in wordsList)

{

Console.WriteLine("\nReverse String: " + s);

}

}

}

}

--------------------------------------------------------------------------

27):

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

namespace EX27

{

class Program

{

static void Main(string[] args)

{

FileInfo f = new FileInfo("/home/students/abc.txt");

Console.WriteLine("\nSize of a file: " + f.Length.ToString());

}

}

}

--------------------------------------------------------------------------

28):

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

namespace EX28

{

class Program

{

static void Main(string[] args)

{

string hexval = "4B0";

Console.WriteLine("Hexadecimal number: "+hexval);

int decValue = int.Parse(hexval, System.Globalization.NumberStyles.HexNumber);

Console.WriteLine("Convert to-");

Console.WriteLine("Decimal number: "+decValue);

}

}

}

--------------------------------------------------------------------------

29):

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

namespace EX29

{

class Program

{

static void Main(string[] args)

{

int[] a= {1,3,-5,4};

int[] b = { 1, 4, -5, -2 };

Console.Write(a\*b);

}

}

}

--------------------------------------------------------------------------

30):

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

namespace EX30

{

class Program

{

static void Main(string[] args)

{

string a;

string s;

Console.WriteLine("enter your string:");

s = Console.ReadLine();

a = s.Substring(s.Length - 4);

for (int i = 1; i <= 4; i++)

{

Console.Write(a+" ");

}

}

}

}

--------------------------------------------------------------------------