**For loop**

**1.**

using System;

public class HelloWorld

{

public static void Main(string[] args)

{

int i;

for(i=1; i<=10; i++)

{

Console.WriteLine ("Welcome to programming world");

}

}

}

2.

using System;

public class HelloWorld

{

public static void Main(string[] args)

{

int i;

for(i=1; i<=15; i++)

{

Console.WriteLine (" "+i);

}

}

}

**3. print even number1 - 20**

using System;

public class HelloWorld

{

public static void Main(string[] args)

{

int i;

for(i=2; i<=20; i=i+2)

{

Console.WriteLine (" "+i);

}

}

}

**4. print odd number 1 - 20**

using System;

public class HelloWorld

{

public static void Main(string[] args)

{

int i;

for(i=1; i<=20; i=i+2)

{

Console.WriteLine (" "+i);

}

}

}

5.

using System;

public class HelloWorld

{

public static void Main(string[] args)

{

int i;

for(i=1; i<=20; i++)

{

Console.Write(" "+i);

}

}

}

6.

using System;

public class HelloWorld

{

public static void Main(string[] args)

{

int i;

for(i=100; i<=1000; i=i+20)

{

Console.Write(" "+i);

}

}

}

7.

using System;

public class HelloWorld

{

public static void Main(string[] args)

{

int i;

for(i=20; i>=1; i--)

{

Console.Write(" "+i);

}

}

}

8.

using System;

public class HelloWorld

{

public static void Main(string[] args)

{

int i;

for(i=1000; i>=100; i=i+20)

{

Console.Write(" "+i);

}

}

}

9.

using System;

public class HelloWorld

{

public static void Main(string[] args)

{

int i, sum=0;

for(i=1; i<=15; i++)

{

sum=sum+i;

}

Console.Write("sum= " +sum);

}

}

**10.sum upto n for even number**

using System;

public class HelloWorld

{

public static void Main(string[] args)

{

int n,sum=0,i;

Console.WriteLine ("Enter number");

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

for(i=2; i<=n; i=i+2)

{

sum=sum+i;

}

Console.WriteLine("sum="+sum);

}

}

**11.sum upto n for odd number**

using System;

public class HelloWorld

{

public static void Main(string[] args)

{

int n,sum=0,i;

Console.WriteLine ("Enter number");

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

for(i=1; i<=n; i=i+2)

{

sum=sum+i;

}

Console.WriteLine("sum="+sum);

}

}

**12.sum of x and y**

using System;

class HelloWorld {

static void Main() {

int x,y,sum=0,i;

Console.WriteLine("Enter x and y");

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

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

if(x<y){

for(i=x; i<=y; i++)

{

sum=sum+i;

}

}

else{

for(i=y; i>=x; i--)

{

sum=sum+i;

}

}

Console.WriteLine("sum="+sum);

}

}

**13.character**

using System;

class HelloWorld {

static void Main() {

int n,i;

char ch;

Console.WriteLine("Enter n");

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

Console.WriteLine("Enter ch");

ch=Convert.ToChar(Console.ReadLine());

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

{

Console.WriteLine(" "+(ch++));

}

}

}

**14.Accept number from user and print its factor**

using System;

class HelloWorld {

static void Main() {

int n,i;

Console.WriteLine("Enter n");

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

for(i=1; i<=n/2; i++)

{

if(n%i==0)

{

Console.WriteLine(" "+i);

}

}

}

}

**15. Pronic number**

using System;

class HelloWorld {

static void Main() {

int n,flag=0,i;

Console.WriteLine("Enter n");

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

for(i=1; i<=n/2; i++)

{

if(n==(i\*(i+1)))

{

flag=1; break;

}

}

if(flag==1)

{

Console.WriteLine("Its pronic");

}

else

{

Console.WriteLine ("Its not pronic");

}

}

}

**16. prime no. or not**

using System;

class HelloWorld {

static void Main() {

int n,flag=0,i;

Console.WriteLine("Enter n");

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

for(i=2; i<=n/2; i++)

{

if(n%i==0)

{

flag=1; break;

}

}

if(flag==0)

{

Console.WriteLine("Its prime number");

}

else

{

Console.WriteLine ("Its not prime number");

}

}

}

**17. perfect no. or not**

using System;

class HelloWorld {

static void Main() {

int i,sum=0,n;

Console.WriteLine("enter number:");

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

for(i=1; i<=n/2; i++)

{

if(n%i==0)

{

sum=sum+i;

}

}

if(sum==n)

{

Console.WriteLine("perfect");

}

else{

Console.WriteLine("not perfect");

}

}

}

**18) fibonasis series**

using System;

class HelloWorld {

static void Main() {

int i,f1=0,f2=1,f3,n;

Console.WriteLine("enter number:");

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

if(n<=0){

Console.Write("invalid");

}

else if(n==1){

Console.Write(" "+f1);

}

else{

Console.Write(f1+" "+f2);

for(i=3;i<=n;i++){

f3=f1+f2;

Console.Write(" "+f3);

f1=f2;

f2=f3;

}

}

}

}

**19. find gcd and lcm**

using System;

public class HelloWorld

{

public static void Main(string[] args)

{

int a,b,n,gcd=0,lcm,i;

Console.WriteLine ("Enter a and b");

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

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

if(a<b){

n=a;

}

else{

n=b;

}

for(i=1; i<=n; i++){

if(a%i==0 && b%i==0){

gcd=i;

}

}

lcm=(a\*b)/gcd;

Console.WriteLine("gcd="+gcd);

Console.WriteLine("lcm="+lcm);

}

}

**20. sum=1x+2x+3x+4x+……..**

using System;

public class HelloWorld

{

public static void Main(string[] args)

{

int x,n,i,sum=0;

Console.WriteLine ("Enter n");

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

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

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

{

sum=sum+(x\*i);

Console.WriteLine("sum="+sum);

}

}

}

**21. sum=1x+3x+5x+…..**

using System;

public class HelloWorld

{

public static void Main(string[] args)

{

int x,n,i,sum=0;

Console.WriteLine ("Enter n");

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

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

for(i=1; i<=n\*2; i=i+2)

{

sum=sum+(x\*i); //sum+(i),,

Console.WriteLine("sum="+sum);

}

}}

**22. 1+3+5+7+9….**

using System;

public class HelloWorld

{

public static void Main(string[] args)

{

int n,i,sum=0;

Console.WriteLine ("Enter n");

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

for(i=1; i<=n; i=i+2)

{

sum=sum+i;

Console.WriteLine("sum="+sum);

}

}

}

**23. 1+4+9+16+…..**

using System;

public class HelloWorld

{

public static void Main(string[] args)

{

int n,i,sum=0;

Console.WriteLine ("Enter n");

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

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

{

sum=i\*i;

Console.WriteLine("sum="+sum);

}

}

}

**24.sum=1+9+27+64…….**

using System;

public class HelloWorld

{

public static void Main(string[] args)

{

int n,i,sum=0;

Console.WriteLine ("Enter n");

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

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

{

sum=i\*i\*i;

Console.WriteLine("sum="+sum);

}

}

}

**25. 1/3+ 1/5+ 1/7……**

**26. factorial of number**

using System;

public class HelloWorld

{

public static void Main(string[] args)

{

int n,f=1,i;

Console.WriteLine ("Enter number:");

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

for(i=n;i>=1; i--){

f=f\*i;

}

Console.WriteLine("f="+f);

}

}

**27. multiplication of table**

using System;

public class HelloWorld

{

public static void Main(string[] args)

{

int n,f=1,i;

Console.WriteLine ("Enter number:");

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

for(i=1;i<=10; i++)

{

f=n\*i;

//Console.WriteLine("f="+f);

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

}

}

}

**28. multiplication of table without using \***

**29.power**

using System;

public class HelloWorld

{

public static void Main(string[] args)

{

int bace,exponent,i,power=1;

Console.WriteLine("enterbace and exponent");

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

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

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

{

power=power\*bace;

}

Console.WriteLine("power="+power);

}

}

**30. Write a program to display the numbers sequentially from 1 to 99 with 5 numbers on each line?**

using System;

public class HelloWorld

{

public static void Main(string[] args)

{

// int i;

// Console.WriteLine("enterbace and exponent");

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

{

Console.Write(i+ " ");

if(i%5==0)

{

Console.WriteLine() ;

}

}

}

}

**31. Write a program to print the numbers which are divisible by both 3 and 7 from 1 to 100?**

using System;

public class HelloWorld

{

public static void Main(string[] args)

{

int i;

for(i = 1; i <= 100; i++)

{

// Condition to check division of 3 and 7

if((i%3) == 0 && (i%7)==0)

{

Console.WriteLine(" "+ i);

}

}

}

}

**32. Write a program to find ‘n’ power ‘n’ (n^n)**

using System;

public class HelloWorld

{

public static void Main(string[] args)

{

int i,n,power=1;

Console.WriteLine("Enter number:");

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

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

{

power \*=n;

}

Console.WriteLine(" power="+power);

}

}