1) Find sum of 'N' natural numbers.

#include<iostream.h>

int main()

{

 int sum=0,i,num;

  cout<<"Enter a number";

  cin>>num;

  for(i=1;i<=num;i++)

  {

     sum=sum+i;

  }

  cout<<"Sum of "<<num<<" natural numbers = " <<sum;

}

2).Write a Program to Find The Area of a Circle,Given The Radius  
#include<iostream.h>  
int main()  
{  
  int r;  
  float P=3.14,area;  
  cout<<" enter the radious of a circle  ";  
  cin>>r;  
  area=P\*r\*r;  
  cout<<"The Area of Circle is"<<"= "<<area;  
}

3).Write a Program to Check Whether a Given Integer is ODD or EVEN.

#include<iostream.h>

int main()  
{

  int N;  
  cout<<" ENTER THE NUMBER  ";  
  cin>>N;  
  if(N%2==0)  
   {  
    cout<<"The Number is EVEN.";  
   }  
  else  
   cout<<"The Number is ODD";  
}

4).Find The Biggest of Three Numbers  
 #include<iostream.h>  
int main()  
{  
  int a,b,c;  
  cout<<" ENTER THE THREE NUMBERS  ";  
  cin>>a>>b>>c;  
  if( a>b && a>c)  
   {  
    cout<<"The Greates Number is "<<a;  
   }  
  else  
   if(b>a && b>c)  
     {  
      cout<<"The Greates Number is"<<b;  
     }  
   else  
   if(c>a && c>b)  
   {  
    cout<<"The Geatest Number is"<<c;  
   }  
}

5).Check Where The Number is ' +ve ' and ' -ve '

#include<iostream.h>  
int main()  
{

 int N;  
   cout<<"Enter a Number N ";  
   cin>>N;  
   if (N>=0)  
    {  
      cout<<"The Number is +ve";  
    }  
    else if(N<0)  
     {  
       cout<<"The Number is -ve";  
     }

}

6).Find The Reverse Of A Given Number.

#include<iostream.h>

int main()

{

int a, r=0 ,N;

cout<<"Enter The Number ";

cin>>N;

while(N>=1)

{

a=N%10;

r=r\*10+a;

N=N/10;

}

cout<<"Reverse of The Number is "<<r;

}

7) Check Whether a Given Number is PALINDROME.

#include<iostream.h>

int main()

{

int N ,a,rev=0;

cout<<"Enter The Number: " ;

cin>>N;

int temp;

temp=N;

while(temp>=1)

{

a=temp%10;

rev=rev\*10+a;

temp=temp/10;

}

cout<< "The Reverse Number is : "<<rev<<"\n" ;

if(N==rev)

{

cout<<"The Number is Palindrome ";

}

else

{

cout<<"The Number is not Palindrome";

}

}

8) Check Whether a Given Number is Armstrong .

#include<iostream.h>

int main()

{

int N,temp,sum=0,remainder;

cout<<"Enter the Number ";

cin>>N;

temp=N;

while(temp!=0)

{

remainder=temp%10;

sum=sum+remainder\*remainder\*remainder;

temp=temp/10;

}

if(N==sum)

{

cout<<"The Number is Armstrong";

}

else

cout<<"The Number is not Armstrong";

}

9).Program to Check Whether Input Alphabet is a Vowel or Not.

#include<iostream.h>

int main()

{

char N;

cout<<"Enter The Charecter: " ;

cin>>N;

if(N=='a'||N=='e'||N=='i'||N=='o'||N=='u')

{

cout<<"Charecter is Vowel.";

}

else

cout<<"Charecter is Consonent.";

}

10).Check Vowel Using Switch Statement.

#include<iostream.h>

int main()

{

char ch;

cout<<"Enter a Charecter";

cin>>ch;

switch(ch)

{

case'a':

case'A':

case'e':

case'E':

case'i':

case'I':

case'o':

case'O':

case'u':

case'U':

cout<<"Charecter vowel";

break;

default:

cout<<"Charector is consonent";

}

}

11.Program to Accept a String and display in Reverse

#include<iostream.h>

int main()

{

int length;

char string1[30] ;

cout<<"Enter the String\n";

cin.getline(string1,30);

length=strlen(string1);

cout<<"Length of string is "<<length<<"\n";

for(int i=length-1; i>=0;i--)

{

cout<<string1[i];

}

}

12) Find The Length of a String Without Using Function

#include<iostream.h>

int main()

{

int count=0;

char string1[20] ;

cin.getline(string1,20);

for(int i=0;string1[i]!='\0';i++)

{

count++;

}

cout<<"The Length of String is " <<count<<"\n";

}

13) Print HELLO WORD by using String Functions.

#include<iostream.h>

int main()

{

char str1[20] = "Hello", str2[20] = " World";

cout<<strcpy(str2, strcat(str1, str2));

}

14) Sample of Program To Swap Two Numbers Using Temporary Variables.

#include<iostream.h>

int main()

{

  int num1,num2,temp;  
   cout<<"\nEnter Two Numbers" ;  
   cin>>num1>>num2;  
   cout<<"\nThe value of num1 and num2 before swaping is " <<"num1= "  <<num1  
   <<" num2= "<<num2;  
   temp=num1;  
   num1=num2;  
   num2=temp;  
   cout<<"\nThe value of num1 and num2 After swaping is " <<"num1= " <<num1  
   <<" num2= "<<num2;

}

15) Sample of Program To Swap Two Numbers Without Using Temp Variable.

#include<iostream.h>

int main()

{

int num1,num2;  
   cout<<"\nEnter Two Numbers" ;  
   cin>>num1>>num2;  
   cout<<"\nThe value of num1 and num2  is " <<"num1= "  <<num1  
   <<" num2= "<<num2;  
  
   num1=num1+num2;  
   num2=num1-num2;  
   num1=num1-num2;  
   cout<<"\nNow The value of num1 and num2 is " <<"num1= " <<num1  
   <<" num2= "<<num2;

}

16)Write a Program Which Reads Three Student Marks in a Test and Then Print Their Average

#include<iostream.h>  
int main()  
{

   int num1,num2,num3;  
   float average;  
   cout<<"Enter Three student marks.\n" ;  
   cin>>num1>>num2>>num3;  
   average=(num1+num2+num3)/3;  
   cout<<"Average of  " <<num1 <<" "<<num2<<" "<<num3<<"is " <<average;  
}

17). Program To Convert Celsius Temperature To Fahrenheit Temperature.

#include<iostream.h>

int main()

{

float num1,num2;

cout<<"Enter Fahrenheit Temperature\n" ;

cin>>num1;

num2=5/9\*(num1-32);

cout<<"\nCentigrade Temperature " <<num2;

}

18).Write a Program To Print The Perfect Square Number Which is Less Than 1000.

#include<iostream.h>

int main()

{

int n=100, s=0;

cout<<"The Squre values Which is less Than 100 is:: " ;

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

{

s=i\*i;

if(s>n)

break;

cout<<s<<" ";

}

}

19) write a program to find the multiplication table of a number

#include<iostream.h>

int main()

{

int i,n,table;

cout<<"enter the number n"<<endl;

cin>>n;

cout<<"The table of " <<n<< "is "<<endl;

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

{

table=n\*i;

cout<<n<<"\*"<<i<<" = "<<table<<endl;

}

}

20)write a c++ program to find the GCD and LCM of two integers output the resuls along with the given integers.use Euclid's distance.

#include<iostream.h>

int main()

{ int num1,num2;

int m1,m2,r;

cout<<"enter two numbers"<<endl;

cin>>num1>>num2;

if(num1>num2)

{

m1=num1;

m2=num2;

}

else

{ m1=num2;

m2=num1;

}

while(r!=0)

{

r=m1%m2;

m1=m2;

m2=r;

}

cout<<"result of gcd of two number is "<<m1<<endl;

int lcm= (num1\*num2)/m1;

cout<<"result of lcm of two number is "<<lcm;

}

21)write a c+program to find the sum of odd numbers and even numbers from 1 to N.

#include<iostream>

using namespace std;

int main()

{ int n;

int sum=0,sum1=0;

cout<<"enter the number of element"<<endl;

cin>>n;

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

{

if(i%2==0)

{

sum=sum+i;

}

}

cout<<"sum of even number is = "<<sum<<endl;

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

{

if(i%2!=0)

{

sum1=sum1+i;

}

}

cout<<"sum of odd number is = "<<sum1;

}