1. PRINT YOUR NAME

#include <iostream>  
  
using namespace std;  
  
int main()  
{  
 cout<<"Anubhav"<<endl;  
  
 return 0;  
}

1. Addition of two numbers.

#include <iostream>  
  
using namespace std;  
  
int main()  
{  
 int a,b;  
 cin>>a>>b;  
  
 cout<<a+b;  
 eturn 0;  
}

1. Subtraction of two numbers

#include <iostream>  
  
using namespace std;  
  
int main()  
{  
 int a,b;  
 cin>>a>>b;  
  
 cout<<a-b;  
   
 return 0;  
}

1. Find multiplication of two numbers

#include <iostream>  
  
using namespace std;  
  
int main()  
{  
 int a,b;  
 cin>>a>>b;  
  
 cout<<a\*b;  
   
 return 0;  
}

1. Take two number and divide them

#include <iostream>  
  
using namespace std;  
  
int main()  
{  
 float a,b;  
 cin>>a>>b;  
  
 cout<<a/b;  
 eturn 0;  
}

1. In one program do add,sub,mul,div. print the answer using one printf statement

#include <iostream>  
  
using namespace std;  
  
int main()  
{  
 float a,b;  
 cin>>a>>b;  
  
 cout<<"\nSUM :- "<<a+b<<"\nDIFFERNCE :- "<<a-b<<"\nPRODUCT :- "<<a\*b<<"\nDIVEDE :- "<<a/b;  
   
 return 0;  
}

1. Find the average of 5 given numbers, 10, 20, 30, 40 and 50

#include <iostream>  
  
using namespace std;  
  
int main()  
{  
 int i;  
 float sum=0;  
 int a[5] = {10 , 20 , 30 , 40 , 50};  
 for(i=0;i<5;i++)  
 {  
 sum = sum + a[i];  
 }  
 cout<<sum/5;  
}

1. Sunita had brought 5 note books, each notebook cost is 10 Rs, write a program to find out total how much money sunita spend for notebook. Sunita has sold 2 note book to manjunath at price of 15 Rs each, one notebook to sagar at the cost of 12 Rs, and reaming to kavitha at price of 11 Rs. Find out how much profit sunita got.

#include <iostream>  
  
using namespace std;  
  
int main()  
{  
 int n,n1,n2,n3;  
 float c,c1,c2,c3,total,profit;  
 cout<<"How many notebooks bought by Sunita "<<endl;  
 cin>>n;  
 cout<<"At what price "<<endl;  
 cin>>c;  
   
 cout<<endl<<endl<<"How many notebooks sold to manjunath"<<endl;  
 cin>>n1;  
 cout<<"At what price"<<endl;  
 cin>>c1;  
 cout<<endl<<"How many notebooks sold to sagar "<<endl;  
 cin>>n2;  
 cout<<"At what price"<<endl;  
 cin>>c2;  
 cout<<endl<<"How many notebooks sold to kavitha "<<endl;  
 cin>>n3;  
 cout<<"At what price"<<endl;  
 cin>>c3;  
   
 total = n1\*c1 + n2\*c2 + n3\*c3;  
 profit = total - n\*c;  
 cout<<endl<<"Total profit of Sunita = "<<profit;  
}

1. In a class 5 student mathematics number is 47, 38, 42, 49 and 41. Calculate total percentage of result of class. (Maximum mark in subject is 50).

#include <iostream>  
  
using namespace std;  
  
int main()  
{  
 int m[5]= {47, 38, 42, 49 , 41};  
 float percentage;  
 percentage = m[0] + m[1]+m[2]+m[3]+m[4];  
 percentage = percentage /250;  
 percentage = percentage \* 100;  
 cout<<"Percentage of class : "<<percentage;  
}

1. C program to calculate Area and Circumference of Circle.

#include <iostream>  
  
using namespace std;  
  
int main()  
{  
 float r,area,circum;  
 cin>>r;  
 area = (22 \* r \* r)/7;  
 circum = (2 \* 22 \* r)/7;  
 cout<<"Area : "<<area<<endl;  
 cout<<"Circuference : "<<circum;  
   
}

1. Write a program to calculate area of rectangle.

#include <iostream>  
  
using namespace std;  
  
int main()  
{  
 int l,b;  
 cin>>l>>b;  
 cout<<"Area of Rectangle : "<<l\*b;  
}

1. Write a C program that calculates the volume of a sphere.

#include <iostream>  
  
using namespace std;  
  
int main()  
{  
 float r;  
 cin>>r;  
 float volume;  
 volume = (4\*22\*r\*r\*r) / 21;  
 cout<<"Volume of SPHERE :- "<<volume;  
}

1. Enter the centimeter that to converted into kilometer and meter.

#include <iostream>  
  
using namespace std;  
  
int main()  
{  
 float cm;  
 cin>>cm;  
 float km,m;  
 cout<<"METRE : "<<cm/100<<" m"<<endl;;  
 cout<<"KILOMETRE : "<<cm/100000<<" km"<<endl;  
}

1. Swap two given numbers.

#include <iostream>  
  
using namespace std;  
  
int main()  
{  
 float a,b,temp;  
 cin>>a>>b;  
 cout<<endl<<"First Number : "<<a<<endl;  
 cout<<"Second Number : "<<b<<endl<<endl;  
 temp = a;  
 a= b;  
 b =temp;  
 cout<<"After Swapping "<<endl;  
 cout<<"First Number : "<<a<<endl;  
 cout<<"Second Number : "<<b;  
}

1. Swap two number without using Third variable.

#include <iostream>  
  
using namespace std;  
  
int main()  
{  
 float a,b;  
 cin>>a>>b;  
 cout<<endl<<"First Number : "<<a<<endl;  
 cout<<"Second Number : "<<b<<endl<<endl;  
 a = a + b;  
 b = a - b;  
 a = a - b;  
 cout<<"After Swapping "<<endl;  
 cout<<"First Number : "<<a<<endl;  
 cout<<"Second Number : "<<b;  
}

1. Find out given number is even or odd.

#include <iostream>  
  
using namespace std;  
  
int main()  
{  
 int n;  
 cin>>n;  
 if(n%2==0)  
 {  
 cout<<endl<<"EVEN";  
 }  
 else   
 cout<<endl<<"ODD";  
}

1. Find out given number is divisible by 5 or not.

#include <iostream>  
  
using namespace std;  
  
int main()  
{  
 int n;  
 cin>>n;  
 if(n%5==0)  
 {  
 cout<<endl<<"Divisible by 5";  
 }  
 else   
 cout<<endl<<"Not Divisible by 5";  
}

1. Find out given year is leap years or not, 1997, 2001, 2008, 2018, and 2020.

#include <iostream>  
  
using namespace std;  
  
int main()  
{  
 int i;  
 int n[5] = {1997, 2001, 2008, 2018, 2020};  
  
 for(i=0;i<5;i++)  
 {  
   
 {  
 if(n[i]%400==0)  
 {  
 cout<<n[i]<<" IS A LEAP YEAR"<<endl;  
 }  
 else  
 if(n[i]%100 == 0)  
 {  
 cout<<n[i]<<" IS NOT A LEAP YEAR"<<endl;  
 }  
 else  
 if(n[i]%4 == 0)  
 {  
 cout<<n[i]<<" IS A LEAP YEAR"<<endl;  
 }  
 else   
 {  
 cout<<n[i]<<" IS NOT A LEAP YEAR"<<endl;  
   
 }  
 }  
 }  
   
}

1. Find the largest number from three given number.

#include <iostream>  
  
using namespace std;  
  
int main()  
{  
 int a,b,c;  
 cin>>a>>b>>c;  
 if((a>b)&&(a>c))  
 {  
 cout<<endl<<a<<" is the greatest number"<<endl;  
 }  
 else  
 if((c>b)&&(c>a))  
 {  
 cout<<endl<<c<<" is the greatest number"<<endl;  
 }  
 else  
 if((b>a)&&(b>c))  
 {  
 cout<<endl<<b<<" is the greatest number"<<endl;  
 }  
 else  
 {  
 cout<<"ENTER DISTINCT NUMBERS";  
 }  
}

1. Check number is positive or negative.

#include <iostream>  
  
using namespace std;  
  
int main()  
{  
 float n;  
 cin>>n;  
 if(n==0)  
 {  
 cout<<"Neither Positive nor Negative";  
 }  
 else  
 if(n<0)  
 {  
 cout<<"Negative Number";  
 }  
 else   
 {  
 cout<<"Positive Number";  
 }  
}

1. Print the reverse of given number i.e. 4692 (expected ans 2964).

#include <iostream>  
#include <sstream>   
using namespace std;  
  
int main()  
{  
 string s;  
 cin>>s;  
 int i,l;  
 l =s.length();  
 stringstream in(s);  
 int n = 0;   
 in >> n;   
 int arr[l];  
 for(i=0;i<l;i++)  
 {  
 arr[i]=n%10;  
 n=n/10;  
 ;i<l;i++)  
 {  
 cout<<arr[i];  
 }  
   
}

1. Sum of all digits of given number i.e. 4692.

#include <iostream>  
#include <sstream>   
using namespace std;  
  
int main()  
{  
 string s;  
 cin>>s;  
 int i,l,sum=0;  
 l =s.length();  
 stringstream in(s);  
 int n = 0;   
 in >> n;   
 int arr[l];  
 for(i=0;i<l;i++)  
 {  
 arr[i]=n%10;  
 n=n/10;  
   
   
 }  
 for(i=0;i<l;i++)  
 {  
 sum = sum + arr[i];  
 }  
 cout<<sum;  
   
}

1. Print all ASCII character using %d = %x = %c.
2. Print the hex and decimal value of following ascii characters A, a, Z, z, 0 , 5.

#include <iostream>

using namespace std;

int main()

{

char a1 ='A', a2 = 'a', a3 = 'Z', a4 = 'z';

int b1 = 0, b2 = 5;

cout<<endl<<"THE Decimal value of "<<a1<<" = "<<dec<<int(a1);

cout<<endl<<"THE Hexadecimal converted value of "<<a1<<" = "<<hex<<int(a1);

cout<<endl<<"\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*"<<endl;

cout<<endl<<"THE Decimal value of "<<a2<<" = "<<dec<<int(a2);

cout<<endl<<"THE Hexadecimal converted value of "<<a2<<" = "<<hex<<int(a2);

cout<<endl<<"\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*"<<endl;

cout<<endl<<"THE Decimal value of "<<a3<<" = "<<dec<<int(a3);

cout<<endl<<"THE Hexadecimal converted value of "<<a3<<" = "<<hex<<int(a3);

cout<<endl<<"\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*"<<endl;

cout<<endl<<"THE Decimal value of "<<a4<<" = "<<dec<<int(a4);

cout<<endl<<"THE Hexadecimal converted value of "<<a4<<" = "<<hex<<int(a4);

cout<<endl<<"\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*"<<endl;

cout<<endl<<"THE Decimal value of "<<b1<<" = "<<dec<<int(b1);

cout<<endl<<"THE Hexadecimal converted value of "<<b1<<" = "<<hex<<int(b1);

cout<<endl<<"\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*"<<endl;

cout<<endl<<"THE Decimal value of "<<b2<<" = "<<dec<<int(b2);

cout<<endl<<"THE Hexadecimal converted value of "<<b2<<" = "<<hex<<int(b2);

return 0;

}

1. Check the entered character is vowel or consonant.

#include <iostream>

using namespace std;

int main()

{

char ch;

cout<<"Enter the character "<<endl;

cin>>ch;

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

{

cout<<endl<<"Entered character is vowel"<<endl;

}

else

if((ch=='A')|| (ch=='E') || (ch=='I') || (ch=='O') || (ch=='U'))

{

cout<<endl<<"Entered character is vowel"<<endl;

}

else

{

cout<<endl<<"Entered character is a consonant"<<endl;

}

return 0;

}

1. Write C program to find size of int, float, double, char, void.

#include <iostream>

#include<string>

using namespace std;

int main()

{

int x;

float y;

char ch;

string s;

double d;

void v;

cout<<"Size of Integer is :- "<<sizeof(x)<<endl;

cout<<"Size of Float is :- "<<sizeof(y)<<endl;

cout<<"Size of Character is :- "<<sizeof(ch)<<endl;

cout<<"Size of String is :- "<<sizeof(s)<<endl;

cout<<"Size of Double is :- "<<sizeof(d)<<endl;

cout<<"Size of Void is :- "<<sizeof(v)<<endl;

}

1. Print the size of the above data types while using difference qualifiers short, long, unsigned.

#include <iostream>

using namespace std;

int main()

{

short x;

long y;

unsigned z;

cout<<sizeof(x)<<endl;

cout<<sizeof(y)<<endl;

cout<<sizeof(z);

return 0;

}

1. Triangle Pattern

#include<iostream>  
using namespace std;  
int main()  
{  
 int i,j,n;  
 int l,m;  
 cin>>n;  
 l=n;  
 m=l;  
 int x = n;  
 for(i=0;i<x;i++)  
 {  
 for(j=0;j<=2\*n+1;j++)  
 {  
   
   
 if(j==l)  
 {  
 cout<<"/";  
   
 }  
 if(j==m)  
 {  
 cout<<"\\";  
 }  
 else  
 cout<<" ";  
   
   
 }  
 l=l-1;  
 m=m+1;  
 cout<<endl<<endl;  
 }  
 for(i=0;i<=x;i++)  
 {  
 cout<<"- ";  
 }  
   
}