Q1. Write a program to do all the arithmetic operation on the entered numbers.

#include<iostream.h>

#include<conio.h>

void main()

{ int n, n1;

cout<<"enter the numbers: ";

cin>>n>>n1;

cout<<"\nthe sum is "<<n+n1;

cout<<"\nthe difference is "<<n-n1;

cout<<"\nthe product is "<<n\*n1;

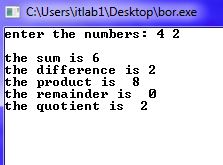
cout<<"\nthe remainder is "<<n%n;

cout<<"\nthe quotient is "<<n/n1;

getch( );

}

**Output:**



Q2. Write a program to find the minimum no. Of dirhams (1000, 500, 200, 100, 50, 20, 10, 1) required for the given amount.

#include<iostream.h>

#include<conio.h>

void main()

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

cout<<"enter the amount: ";

cin>>a;

b=a/1000;

c=a%1000;

d=(c%500);

e= (d%200)%100;

cout<<"\nno. of 1000(S) in the amount is: "<<b;

cout<<"\nno. of 500 in the amount is: "<<c/500;

cout<<"\nno. of 200 in the amount is: "<<d/200;

cout<<"\nno.of 100 in the amount is: "<<(d%200)/100;

cout<<"\nno. of 50 in the amount is: "<<e/50;

cout<<"\nno. of 20 in the amount is: "<<(e%50)/20;

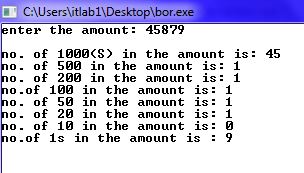
cout<<"\nno. of 10 in the amount is: "<<((e%50)%20)/10;

cout<<"\nno.of 1s in the amount is : "<<((e%50)%20)%10;

getch( );

}

**Output:**



Q.3. Write a program to check whether the given date is valid or not.

#include<iostream.h>

#include<conio.h>

void main()

{ int dd, mm, yyyy;

cout<<"enter a date: ";

cin>>dd>>mm>>yyyy;

if(mm==2)

{ if(yyyy%4==0)

{ if((yyyy%100==0) && (yyyy%400!=0))

{if (dd<=28)

cout<<"valid date";

else

cout<<"invaid date";

}

else

{if(dd<=29)

cout<<"valid date";

else

cout<<"invalid date";

}

}

}

else if (mm==1||mm==3||mm==5||mm==7||mm==8||mm==10||mm==12)

{ if(dd<=31)

cout<<"valid date";

else

cout<<"invalid date";

}

else if(mm==4||mm==6||mm==9||mm==11)

{ if(dd<=30)

cout<<"valid date";

else

cout<<"invalid date";

}

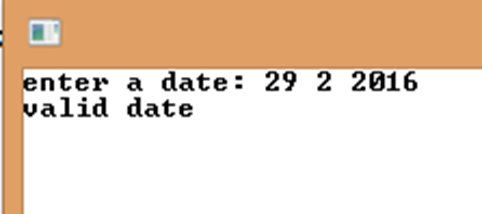
else

cout<<"invalid";

getch( );

}

**Output:**



Q.4. Write a program that read the co-efficient of the quadratic equation and identify the value of the root of the given quadratic equation.

#include<iostream.h>

#include<conio.h>

#include<math.h>

void main()

{int a,b,c,d;

float r1,r2;

cout<<"enter the coefficient of the quadratic equation: ";

cin>>a>>b>>c;

d=pow(b,2)-(4\*a\*c);

if(d>0)

{r1=(b+sqrt(d))/(a\*2);

r2=(b-sqrt(d))/(a\*2);

cout<<"the roots are: "<<r1<<" and "<<r2;

}

else if(d==0)

{r1=(b+sqrt(d))/(a\*2);

r2=r1;

cout<<" since the discriminant is 0, the roots r real and equal. so the roots are: "<<r1<<" "<<r2;

}

else if(d<0)

{ r1=(b+sqrt(d))/(a\*2);

r2=(b-sqrt(d))/(a\*2);

cout<<"roots are "<<r1<<" and "<<r2;

}

getch( );

}

**Output:**

