A)

**Source Code:**

import java.util.\*;

class operation

{

public static void main(String args[])

{

Scanner sc=new Scanner(System.in);

int x,y,sum,ch;

char c;

do

{

System.out.println("Enter 2 number:");

x=sc.nextInt();

y=sc.nextInt();

System.out.println("Menu:");

System.out.println("1.add");

System.out.println("2.Subtract");

System.out.println("3.Multiply");

System.out.println("4.Division");

System.out.println("Enter your choice:");

ch=sc.nextInt();

switch(ch)

{

case 1:sum=x+y;

System.out.println("The sum is "+sum);

break;

case 2:sum=x-y;

System.out.println("The sunbtraction ans is "+sum);

break;

case 3:sum=x\*y;

System.out.println("The product is "+sum);

break;

case 4:sum=x/y;

System.out.println("The division ans is "+sum);

break;

}

System.out.println("Do you want to continue Y/N");

c=sc.next().charAt(0);

}while(c!='N');

}

}

**Output**:



B)

**Source Code:**

import java.util.\*;

class comm\_line

{

public static void main(String args[])

{

int x,y,z;

float sum;

String s;

x=Integer.parseInt(args[1]);

y=Integer.parseInt(args[2]);

z=Integer.parseInt(args[3]);

sum=x+y+z;

System.out.println("Name : "+args[0]);

System.out.println(x);

System.out.println(y);

System.out.println(z);

System.out.println("Total marks are "+sum );

}

**Output**:



C)

**Source Code:**

import java.util.\*;

class quadratic

{

public static void main(String args[])

{

float a,b,c,d,x1,x2;

Scanner sc=new Scanner(System.in);

System.out.println("Enter the co-efficent of a quadratic equation:");

a=sc.nextFloat();

b=sc.nextFloat();

c=sc.nextFloat();

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

if(d>0)

{

x1=(float)(-b+Math.sqrt(d))/(2\*a);

x2=(float)(-b-Math.sqrt(d))/(2\*a);

System.out.println("The roots are "+x1+" "+x2);

}

else if(d==0)

{

x1=(-b)/(2\*a);

System.out.println("The root is "+x1);

}

else

System.out.println("The roots are not real.");

}

}

**Output**:



D)

**Source Code:**

import java.util.\*;

class operators

{

public static void main(String agrs[])

{

int a=10,b=10,e=15,min;

boolean c=true,d=false;

System.out.println("1."+(a++ + ++a));

System.out.println("2."+(b-- + b--));

System.out.println("3."+~a);

System.out.println("4."+~b);

System.out.println("5."+!c);

System.out.println("6."+!d);

System.out.println("7."+(10\*10/5+3-1\*4/2));

a=-3;

System.out.println("8."+(a<<2));

System.out.println("9."+(a>>>2));

System.out.println("10."+(a<b && a<e));

System.out.println("11."+(a & b));

System.out.println("12."+((a>b)||(a>e)));

System.out.println("13."+(a|b));

min=(a<b)?a:b;

System.out.println(min);

}

}

**Output**:

