

Q.1 Write a program to add two numbers.

```
import java.util.Scanner;

class Cls
{
    public static void main(String[] args)
    {
        Scanner sc=new Scanner(System.in);
        int a,b,c;
        System.out.println("enter two values");
        a=sc.nextInt();
        b=sc.nextInt();
        c=a+b;
        System.out.println(c);
    }
}
```

Q.2 Write a program to find the area of circle.

```
import java.util.Scanner;

class Cls
{
    public static void main(String[] args)
```

```
{  
Scanner sc=new Scanner(System.in);  
  
float a,r;  
  
float pi=3.14f;  
  
  
System.out.println("enter radius");  
  
r=sc.nextFloat();  
  
  
  
a=pi*(float)Math.pow(r,2);  
  
System.out.println("Area of circle is"+a);  
}  
}
```

Q.3 Write a program to find the volume of cone.

```
import java.util.Scanner;  
  
class Cls  
{  
public static void main(String[] args)  
{  
Scanner sc=new Scanner(System.in);  
  
float h,r,v;  
  
float pi=3.14f;  
  
  
System.out.println("enter radius");  
  
r=sc.nextFloat();
```

```
System.out.println("enter height");  
  
h=sc.nextFloat();  
  
v=(pi*r*r*h)/3;  
  
System.out.println("Volume of cone is"+v);  
  
}  
  
}
```

Q.4 Write a program to find the factorial of a number.

```
import java.util.Scanner;  
  
class Cls  
{  
  
    public static void main(String[] args)  
    {  
  
        Scanner sc=new Scanner(System.in);  
  
        int f=1;  
  
        int n;  
  
        System.out.println("enter a number");  
  
        n=sc.nextInt();  
  
        while(n>0)  
        {  
  
            f=f*n;  
  
            n--;  
  
        }  
  
        System.out.println("Factorial is:"+f);  
  
    }  
  
}
```

Q.5 Write a program to check whether a year is leap year or not.

```
import java.util.Scanner;

class Cls
{
    public static void main(String[] args)
    {
        int y;

        Scanner sc=new Scanner(System.in);

        System.out.println("Enter the year");

        y=sc.nextInt();

        if(y%400==0 || (y%4==0 && y%100!=0))

            System.out.println("leap year");

        else

            System.out.println("non leap year");

    }
}
```

Q.6 Write a program to swap two numbers.

```
import java.util.Scanner;

class Cls
{
    public static void main(String[] args)
    {
        int a,b;
```

```
Scanner sc=new Scanner(System.in);

System.out.println("Enter two numbers");

a=sc.nextInt();

b=sc.nextInt();

System.out.println("Before swap a= "+a+" and b=" +b);

a=a+b;

b=a-b;

a=a-b;

System.out.println("After swap a= "+a+" and b=" +b);


}

}
```

Q.7 Write a program to find the simple interest.

```
import java.util.Scanner;

class Cls

{

public static void main(String[] args)

{

float p,r,t,si;

Scanner sc=new Scanner(System.in);

System.out.println("Enter principal");

p=sc.nextFloat();

System.out.println("Enter rate");

r=sc.nextFloat();
```

```
System.out.println("Enter time");

t=sc.nextFloat();

si=(p*r*t)/100;


System.out.println("simple interest is:"+si);


}

}
```

Q 8. Write a program to check whether the triangle can be formed when all the sides are given.

```
import java.util.Scanner;

class Cls

{

public static void main(String[] args)

{

float a,b,c;

Scanner sc=new Scanner(System.in);

System.out.println("Enter three sides");

a=sc.nextFloat();

b=sc.nextFloat();

c=sc.nextFloat();

if(a+b>c && b+c>a && c+a>b)

System.out.println("Triangle can be formed");

else
```

```
System.out.println("Triangle cannot be formed");  
  
}  
  
}
```

Q.9 Write a program to check whether a number is negative or positive or zero.

```
import java.util.Scanner;  
  
class Cls  
{  
  
    public static void main(String[] args)  
    {  
  
        int a;  
  
        Scanner sc=new Scanner(System.in);  
  
        System.out.println("Enter the number");  
  
        a=sc.nextInt();  
  
  
        if(a>0)  
  
            System.out.println("Number is positive");  
  
        else if(a<0)  
  
            System.out.println("Number is negative");  
  
        else  
  
            System.out.println("Number is zero");  
  
  
    }  
  
}
```

Q.10 Write a program to check whether a number is prime or not.

```
import java.util.Scanner;

class Cls

{

public static void main(String[] args)

{

int a,i=0,c=0;

Scanner sc=new Scanner(System.in);

System.out.println("Enter the number");

a=sc.nextInt();

for(i=2;i<=Math.sqrt(a);i++)

{ if(a%i==0)

c++;

}

if(c==0)

System.out.println("Number is prime");

else

System.out.println("Number is not prime");

}

}
```


