1.

Write a program to print the sum of two numbers entered by user by defining your own method.

```
import java.util.*;

class Ans{

public static void Sum(){
    Scanner s = new Scanner(System.in);
    int x,y;
    System.out.println("Enter a number");
    x = s.nextInt();
    System.out.println("Enter the another number");
    y = s.nextInt();
    System.out.println("Sum is "+(x+y));
}

public static void main(String[] args) {
    Sum();
}
```

Define a method that returns the product of two numbers entered by user.

3.

Write a program to print the circumference and area of a circle of radius entered by user by defining your own method.

```
import java.util.*;

class Ans{

public static void Circle(){
    Scanner s = new Scanner(System.in);
    int radius;
    System.out.println("Enter the radius");
    radius = s.nextInt();
    System.out.println("Circumference is "+(2*3.14*radius)+" and area is "+(3.14*radius*radius));
    }

public static void main(String[] args) {
    Circle();
}
```

Define two methods to print the maximum and the minimum number respectively among three numbers entered by user.

Define a program to find out whether a given number is even or odd.

A person is elligible to vote if his/her age is greater than or equal to 18. Define a method to find out if he/she is elligible to vote.

Define a method to find out if number is prime or not.

```
import java.util.*;

class Ans{

public static boolean isPrime(int x){
   boolean prime = true;
   if(x>1){
      for(int i = 2;i<x;i++){
        if(x%i==0){
            prime = false;
            break;
        }
      }
    }
   else{
      prime = false;
   }
   return prime;
}

public static void main(String[] args) {
    System.out.println(isPrime(5));
    System.out.println(isPrime(10));
}
</pre>
```

Write a program which will ask the user to enter his/her marks (out of 100). Define a method that will display grades according to the marks entered as below:

Marks	Grade
91-100	AA
81-90	AB
71-80	BB
61-70	BC
51-60	CD
41-50	DD
<=40	Fail

Write a program to print the factorial of a number by defining a method named 'Factorial'. Factorial of any number n is represented by n! and is equal to 1*2*3*....*(n-1)*n. E.g.-

```
4! = 1*2*3*4 = 24

3! = 3*2*1 = 6

2! = 2*1 = 2

Also,

1! = 1

0! = 0
```

```
import java.util.*;

class Ans{

public static int fact(int x){
   if(x == 0 || x == 1){
      return 1;
   }
   else{
      return fact(x-1)*x;
   }
}

public static void main(String[] args) {
   System.out.println(fact(5));
   System.out.println(fact(10));
   System.out.println(fact(1));
   System.out.println(fact(1));
   System.out.println(fact(0));
}
```