Program 1:Program to print numbers from 1 to 10.

```java
public class Prg1 {
        public static void main(String[] args) {
        for(int i=1;i<=10;i++) {//using for loop to print the numbers from 1 to 10
        System.out.println(i);
        }


        }

}
```

Program 2:Program to print the sum of first 10 natural numbers.

```java
public class Prg2 {
        public static void main(String[] args) {

                //int n = 10;
                int sum = 0;
                for (int i = 1; i <= 10; i++) {

                        sum = sum + i;

                }
                System.out.println(sum);

        }

}
```

Program 3:Program that prompts the user to input a positive integer ,it should then print the multipliaction table of that number.

```java
public class Prg3{
        public static void main(String[] args) {
System.out.println( "Enter the positive integer");
                Scanner sc =new Scanner(System.in);
                int n = sc.nextInt();

                for (int i = 1; i <= 10; i++) {
                        for (int j = 0; j <= n; j++) {
```

```java
                                }
                                System.out.println( +i +"*" +n +"=" + i*n);

                        }



                        }

}
```

Program 4:Program to find the factorial value of any number entered through the keyboard.
```java
public class Prg4{
        public static void main(String[] args) {
System.out.println( "Enter the positive integer");
                        Scanner sc =new  Scanner(System.in);
                        int n = sc.nextInt();

                for (int i = 1; i <= 10; i++) {
                                for (int j = 0; j <= n; j++) {

                                }
                                System.out.println( +i +"*" +n +"=" + i*n);

                }

}
```

Program 5:Two numbers are entered through the keyboard, a prgm to find the value of one number raised to the power of another(without java built in methods).

```java
public class Prg5{
        public static void main(String[] args) {
                        System.out.println("Enter the fisrt number");
                        Scanner sc = new Scanner(System.in);
                        int a = sc.nextInt();
                        System.out.println("Enter second   number");
                        int b = sc.nextInt();
                        System.out.println(+a + "," + b);

                        int value = 1;
                        for (; b != 0; --b)
```

```
                    {

                            value *= a;

                    }
                    System.out.println(value);

            }
}
```

Program 6: program that prompts the user to input an integer and then outputs the number with the digits reversed.

```
public class Prg6{
            public static void main(String[] args) {
                            System.out.println("enter the number");
                            Scanner sc = new Scanner(System.in);

                            int n = sc.nextInt();
                            int sum = 0, r;
                            while (n > 0) {
                                    r = n % 10;
                                    System.out.println(r);
                                    sum = (sum * 10) + r;

                                    n = n / 10;

                            }
                            System.out.println(sum);
            }

}



                    }

}
```

Program 7: program that read a set of integer,and then prints the sum of odd and even numbers.

```
public class Prg7 {
```

```java
        public static void main(String[] args) {
                System.out.println("Enter the set of integers");
                Scanner sc = new Scanner(System.in);
                int a = sc.nextInt();

                int sum2 = 0, sum1 = 0;
                for (int i = 0; i <= a; i++) {
                        if (i % 2 == 0) {
                                // int temp1=i;
                                sum1 = sum1 + i;
                        } else
                                sum2 = sum2 + i;

                }

                System.out.println("sum of even numbers:" + sum1);
                System.out.println("sum of odd  numbers:" + sum2);

        }

}
```

Program 8:Program that prompts the user input a positive integer,it should then output a message indicating whether the number is a prime number.

```java
public class Prg8{
        public static void main(String[] args) {
                System.out.println("Enter the positive integer");
                Scanner sc = new Scanner(System.in);
                int a = sc.nextInt();

                System.out.println(((a % 2) > 0) ? "It is a prime number" : "It is not a prime
number");
        }
}
```

program 9:Program to calculate HCF of two given numbers.

```java
public class Prg9 {
        public static void main(String[] args) {
                Scanner sc = new Scanner(System.in);
                System.out.println("Enter the first number:");
                int a = sc.nextInt();
                System.out.println("Enter the second number:");
```

```
                        int b = sc.nextInt();
                        int hcf=0;
                        for(int i=1;i<=a||i<=b;i++) {
                                if(a%i==0 && b%i==0)
                                        hcf=i;
                        }
                        System.out.println("The HCF of the given numbers is:"+hcf  );


                        }
                }
```

program10: Do while loop that asks the user to enter two numbers ,the number should be added
and the sum displayed,the loop should ask the users whether he or she
wishes to perrform the operation again,if so the loop should repeat otherwise it should terminate.

```
public class Prg10 {
        public static void main(String[] args) {

                        int ch;
                        Scanner sc = new Scanner(System.in);
                        int a, b, sum;
                        do {

                                System.out.println("Enter two numbers");
                                a = sc.nextInt();
                                b = sc.nextInt();
                                sum = a + b;
                                System.out.println("The sum is:" + sum);
                                System.out.println("Do u want to continue with this operation:( if
yes  press 1/ if no press 0)");
                                ch = sc.nextInt();
                        }

                        while (ch == 1);


                }
}
```

Program 11:Program to enter the numbers till user wants and at the end the prgm should
display,the count of positive ,negative and zeros entered.
```
public class Prg1 1{
        public static void main(String[] args) {
                        Scanner sc= new Scanner(System.in);
```

```java
                char opt;int num;int pc=0,nc=0,zc=0;
                do {
                        System.out.println("Enter the number");
                        num =sc.nextInt();
                        if(num>0)
                                    pc++;
                        else if(num<0)
                                    nc++;
                        else
                                    zc++;
                        System.out.println("If u want to enter more type y");
                        opt=sc.next().charAt(0);
                }
                while(opt=='y');

                System.out.println("the count of positive numbers is  "+pc );
                System.out.println("the count of negative numbers is  "+nc );
                System.out.println("the count of zeros numbers is  "+zc );

}
}
```

Program12:Program to enter the numbers till user wants and at the end of the prgm should display the largest and smallest number entered.

```java
public class Prg12 {
        public static void main(String[] args) {
                Scanner sc= new Scanner(System.in);
                char opt;int num;int
largest=Integer.MIN_VALUE,smallest=Integer.MAX_VALUE;
                do {
                        System.out.println("Enter the number");
                        num =sc.nextInt();
                        if(num>largest)
                                    largest=num;
                        else if(num<smallest)
                                    smallest=num;

                        System.out.println("If u want to enter more type y");
                        opt=sc.next().charAt(0);
                }
                while(opt=='y');

                System.out.println("the  largest numbers is "+ largest);
                System.out.println("the  negative numbers is "+smallest);
```

```
}
}
```