

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

```
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.

```
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 multiplication table of that number.

```
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++) {
```

```

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

    }

}

```

Program 4: Program to find the factorial value of any number entered through the keyboard.

```

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).

```

public class Prg5{
    public static void main(String[] args) {
        System.out.println("Enter the first 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 {

```

```

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.

```

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.

```

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 Prg11 {
    public static void main(String[] args) {
        Scanner sc= new Scanner(System.in);

```

```

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.

```

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);
    }
}

```

}  
}