## Question 1

Write a program to print numbers from 1 to 10.

```
import java.util.Scanner;

public class Program1{

public static void main(String[] args){

Scanner sc=new Scanner(System.in);



for(int i=1;i<=10;i++)

{

System.out.println(i);

}

}

}
```

## Question 2

Write a program to calculate the sum of first 10 natural number.

```
import java.util.Scanner;

public class Program2{

public static void main(String[] args){

int i=1,j=10,sum=0;


while(i<=j)

{

sum+=i;

i++;

}

System.out.println("sum of natural no are:"+sum);

}

}
```

## Question 3

Write a program that prompts the user to input a positive integer. It should then print the multiplication table of that number.

```
import java.util.Scanner;

public class Program3{

public static void main(String[] args){

Scanner sc=new Scanner(System.in);

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

int n=sc.nextInt();

for(int i=1;i<=10;i++)

{

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

}

}

}
```

## Question 4

Write a program to find the factorial value of any number entered through the keyboard.

```
import java.util.Scanner;

public class Program4

{

public static void main(String[] args){

int fact=1;

Scanner scanner=new Scanner(System.in);

int i=scanner.nextInt();

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

fact=fact*i;

System.out.println("the factorial is"+fact);

}
```

```
}

}
```

## Question 5

Two numbers are entered through the keyboard. Write a program to find the value of one number raised to the power of another. (Do not use Java built-in method)

```
import java.util.Scanner;

public class Program5{

public static void main(String args[]){

Scanner scanner=new Scanner(System.in);

System.out.println("enter the base number:");

int base=scanner.nextInt();

int temp=base;

System.out.println("enter the exponent number");

int exp=scanner.nextInt();

for(int i=1; i<exp; i++)

{

temp=temp*base;

}

System.out.println("result of" + base +"power"+ exp +" is "+ temp);

}

}
```

## Question 6

Write a program that prompts the user to input an integer and then outputs the number with the digits reversed. For example, if the input is 12345, the output should be 54321.

```
import java.util.Scanner;

public class Program6{

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

```
Scanner sc=new Scanner(System.in);
System.out.println("enter the no to reverse");
int n=sc.nextInt();
while(n>0){
int num=n%10;
System.out.print(num);
n=n/10;
}
}
}
```

## Question 7

Write a program that reads a set of integers, and then prints the sum of the even and odd integers.

```
import java.util.Scanner;
public class Program7 {

	public static void main(String[] args) {
		// TODO Auto-generated method stub
		int number,i,evenSum=0,oddSum=0;
	Scanner sc=new Scanner(System.in);
	System.out.println("enter any number:");
	number=sc.nextInt();
	for(i=1;i<=number;i++)
	{
	    if(i%2==0)
	    {
			evenSum=evenSum+i;

	    }
```

```
        else
        {
                oddSum=oddSum+i;
        }
    }
    System.out.println("The even sum:"+evenSum);
    System.out.println("The odd sum:"+oddSum);
        }

}
```

## Question 8

Write a program that prompts the user to input a positive integer. It should then output a message indicating whether the number is a prime number.

```
import java.util.Scanner;

public class Program8{

public static void main(String[] args){

Scanner sc=new Scanner(System.in);

System.out.println("enter the no");

int n=sc.nextInt();

System.out.println(((n%2)>0)?" the no is prime":"the no is not prime");

}

}
```

## Question 9

Write a program to calculate HCF of Two given number.

```
import java.util.Scanner;

public class Program9{
```

```
public static void main(String args[]){
int a,b,i,hcf=0;
Scanner scanner=new Scanner(System.in);
System.out.println("enter the first no");
a=scanner.nextInt();
System.out.println("enter the second no");
b=scanner.nextInt();
for(i=1; i<=a || i<=b; i++){
if(a%i==0 && b%i==0)
hcf=i;
}
System.out.println("hcf of given two no is:" + hcf);
}
}
```

## Question 10

Write a do-while loop that asks the user to enter two numbers. The numbers should be added and the sum displayed. The loop should ask the user whether he or she wishes to perform the operation again. If so, the loop should repeat; otherwise it should terminate.

```
import java.util.Scanner;
public class Program10 {
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);

}
}
```

## Question 11

Write a program to enter the numbers till the user wants and at the end it should display the count of positive, negative and zeros entered.

```
import java.util.Scanner;

public class Program11{
   public static void main(String[] args)
   {
      Scanner console = new Scanner(System.in);

      int number,
         countPositive = 0,
         countNegative = 0,
         countZero = 0;

      char choice;

      do
      {
         System.out.print("Enter the number ");
```

```
        number = console.nextInt();

        if(number > 0)
        {
           countPositive++;
        }
        else if(number < 0)
        {
           countNegative++;
        }
        else
        {
           countZero++;
        }

        System.out.print("Do you want to continue y/n? ");
        choice = console.next().charAt(0);

      }while(choice=='y' || choice == 'Y');

      System.out.println("Positive numbers: " + countPositive);
      System.out.println("Negative numbers: " + countNegative);
      System.out.println("Zero numbers: " + countZero);
   }
}
```

**Question 12**

Write a program to enter the numbers till the user wants and at the end the program should display the largest and smallest numbers entered.

```
import java.util.Scanner;


public class Program12
{
   public static void main(String[] args)
   {
      Scanner console = new Scanner(System.in);


      int number;
      int max = Integer.MIN_VALUE;
      int min = Integer.MAX_VALUE;


      char choice;


      do
      {
         System.out.print("Enter the number ");
         number = console.nextInt();


         if(number > max)
         {
            max = number;
         }


         if(number < min)
         {
```

```
            min = number;
        }

        System.out.print("Do you want to continue y/n? ");
        choice = console.next().charAt(0);

    }while(choice=='y' || choice == 'Y');

    System.out.println("Largest number: " + max);
    System.out.println("Smallest number: " + min);
  }
}
```