Question:-01: Find out the Fibonacci number.

```
public static void main(String[] args) {
    int febCon=1;
    int b =1;
     System.out.print(febCon);
     System.out.print(" "+b);
     for (int i = 0; i < 10; i++) {
       int c=febCon+b;
        System.out.print(" "+c);
        febCon=b;
        b=c;
     }
  }
}
```

Question:-02: Find out the Factorial number from n values.

```
public static void main(String[] args) {
    Scanner s = new Scanner(System.in);
    int number = s.nextInt();
    int i, fact = 1;
    for (i = 1; i <= number; i++) {
       fact = fact * i;
    }
    System.out.println("Factorial of " + number + " is: " + fact);
  }
}
```

Question:-03: Find out the Prime number form n values.

```
public static void main(String[] args) {
    Scanner s = new Scanner(System.in);
    int number = s.nextInt();
    int m=0;
    for (int i = 1; i <= number; i++) {
       if(number%i==0){
          m=m+1;
          }
       }
    if(m==2){
          System.out.println(number+" is Prime number");
       }
       else{
          System.out.println(number+" is not Prime number");
       }
    }
```

Question:-04: Sort the Multidimensional Array.

```
public static void main(String args[]) {
   int arr[][] = {{4, 2, 3}, {2, 6, 5}, {7, 4, 6}};//declaring and initializing 2D array
   int m =0;
   for (int i = 0; i < arr.length; i++) {
        for (int j = 0; j < arr[i].length; j++) {
           for (int k = j+1; k < arr[i].length; k++) {
              if(arr[i][j]>arr[i][k]){
                 m=arr[i][j];
                 arr[i][j]=arr[i][k];
                 arr[i][k] = m;
              }
           }
```

```
                System.out.print(arr[i][j]+" ");
            }
            System.out.println();
        }
    }
```

Question:-05: Sort the Array in Reverse order.

```
    public static void main(String args[]) {
        int arr[][] = {{4, 2, 3}, {2, 6, 5}, {7, 4, 6}};//declaring and initializing 2D array
        int m =0;
        for (int i = 0; i < arr.length; i++) {
            for (int j = 0; j < arr[i].length; j++) {
                for (int k = j+1; k < arr[i].length; k++) {
                    if(arr[i][j]<arr[i][k]){

                        m=arr[i][j];
                        arr[i][j]=arr[i][k];
                        arr[i][k] = m;
                    }
                }
                System.out.print(arr[i][j]+" ");
            }
            System.out.println();
        }
    }
```

Question:-06: Find out the Max-Min number among n number of values.

```
    public static void main(String[] args) {
        System.out.println("Enter the value of length");
        Scanner scan = new Scanner(System.in);
        int x;
        x=scan.nextInt();
        int a[] = new int[x]; // Array length
        int max = 0;
        int min = 0;
        System.out.println("Enter the value");
        for (int i = 0; i < a.length; i++) {

            a[i] = scan.nextInt();
            if (i == 0) {
                max = a[i];
                min = a[i];
            } else if (a[i] > max) {
                max = a[i];
            } else if (a[i] < min) {
                min = a[i];
            } else {
                continue;
            }
        }
        System.out.println("Maximum number is: " + max);
        System.out.println("Minimum number is: " + min);
    }
}
```

Question:-07: Find out the ten unique Random Numbers.

```
    int dup[] = new int[10];
    int count = 0, dupcount = 0;
    private void generateDuplicate() {
```

```
        int randomvalue = 0;
        for (;;) {
            randomvalue = (int) (Math.random() * 100);
            if(duplicateCheck(randomvalue)==1){
            dup[count]=randomvalue;
                System.out.print(dup[count]+" ");
                count++;
            }
            if(count==10){
            break;
            }
        }
        System.out.println("");
    }
    int duplicateCheck(int x) {
        for (int i = 0; i < 10; i++) {
            if(dup[i]==x){
            dupcount++;
            return 0;
            }
        }
        return 1;
    }


    public static void main(String[] args) {
        AllTestfile rn = new AllTestfile();              // this Object (constructor) will be Class name.
        rn.generateDuplicate();
    }
}
```

Question:-08: Find out the Conditional Sum until input 0(zero).

```
    public static void main(String[] args) {
        Scanner s = new Scanner(System.in);
        int sum = 0;
        for (int i = 0; ; i++) {
            int a = s.nextInt();
            if (a > 0) {
                sum += a;
            } else {
                System.out.println("The Total is : " + sum);
            }
        }
    }
}
```

Question:-09: Find out the Odd-even number among n number of values.

```
    public static void main(String args[]) {
        System.out.println("Enter an integer: ");
        Scanner in = new Scanner(System.in);
        int x;
        x = in.nextInt();
        if (x % 2 == 0) {
            System.out.println("Your entered number is an even number.");
        } else {
            System.out.println("Your entered  number is an odd number.");
        }
    }
```

```
}
```

Question:-10: Calculate the number with Power.

```
public class Powerset {
   public static void main(String[] args) {
   int a = 2;
   int b = 4;
   System.out.println(Math.pow(a, b));
    }
}
```

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