# **LAB-10**

### 202203028

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# **Question-1:**

#### Code:

```
package Lab_9;
import java.util.*;
public class Lab_9_1
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
        boolean t=true;
        int a,b;
        double c;
        while(t){
            try{
                a=sc.nextInt();
                b=sc.nextInt();
                c=a/b;
                System.out.println("a/b = "+(double)a/b);
                t=false;
            catch(Exception ex){
                System.out.println("division by zero is not possible
, Enter diffrent numbers");
        }
    }
```

```
PS C:\Users\Admin\Desktop\OOPs-LAB> javac Lab_9/Lab_9_1.java
PS C:\Users\Admin\Desktop\OOPs-LAB> java Lab_9.Lab_9_1
2 0
division by zero is not possible , Enter diffrent numbers
```

# **Question-2:**

```
Code:
package Lab_9;
import java.util.*;
public class Lab 9 2
    public static double calculateAvrage(int a[]) throws Exception{
        int sum=0;
        for(int i=0;i<a.length;i++){</pre>
            sum += a[i];
        return sum/a.length;
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
        boolean t=true;
        int n = sc.nextInt();
        int a[] = new int[n];
        for(int i=0;i<n;i++){</pre>
            a[i]= sc.nextInt();
        try{
            System.out.println(calculateAvrage(a));
        catch(Exception ex){
            System.out.println("Array is empty ");
```

```
}
}
}
```

### **Output:**

```
PS C:\Users\Admin\Desktop\OOPs-LAB> javac Lab_9/Lab_9_2.java
PS C:\Users\Admin\Desktop\OOPs-LAB> java Lab_9.Lab_9_2

Ø
Array is empty
PS C:\Users\Admin\Desktop\OOPs-LAB>
```

### **Question-3:**

#### Code:

```
PS C:\Users\Admin\Desktop\OOPs-LAB> java Lab_9.Lab_9_3
Enter your age
-12
Entered value of age is not valid , try again
23
PS C:\Users\Admin\Desktop\OOPs-LAB>
```

# **Question-4:**

#### Code:

```
package Lab_9;
import java.util.*;
public class Lab_9_4
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
        int n = 0;
        System.out.println("Enter number ");
        try{
            n=sc.nextInt();
            for(int i=2;i<Math.sqrt(n);i++){</pre>
                if(n%i==0){
                    System.out.println("Not a Prime Number");
                    return;
            System.out.println(n+" is a Prime Number");
        catch(InputMismatchException e){
            System.out.println("Invalid input");
    }
```

```
PS C:\Users\Admin\Desktop\OOPs-LAB> java Lab_9.Lab_9_4
Enter number
2.3
Invalid input
PS C:\Users\Admin\Desktop\OOPs-LAB>
```

### **Question-5:**

#### Code:

```
package Lab 9;
import java.sql.Array;
import java.util.*;
public class Lab 9 5
    public static String getWord(String a[],int i) throws
ArrayIndexOutOfBoundsException{
        return a[i];
    }
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
        String s = sc.nextLine();
        String arr[] = s.split(" ");
        int i,n=arr.length;
        System.out.println("Enter the index :");
        i=sc.nextInt();
        try {
            System.out.println("Word at Index "+i+" is :
"+getWord(arr,i));
        } catch (Exception e) {
            System.out.println("Entered value of index is invalid");
        }
    }
```

```
PS C:\Users\Admin\Desktop\OOPs-LAB> java Lab_9.Lab_9_5
asds asdsdfa asfsd asfdaf asfdasf
Enter the index :
6
Entered value of index is invalid
PS C:\Users\Admin\Desktop\OOPs-LAB>
```