

OBJECT ORIENTED PROGRAMMING LAB**Experiment No.: 18****Aim**

Find the average of N positive integers, raising a user defined exception for each negative input.

Procedure

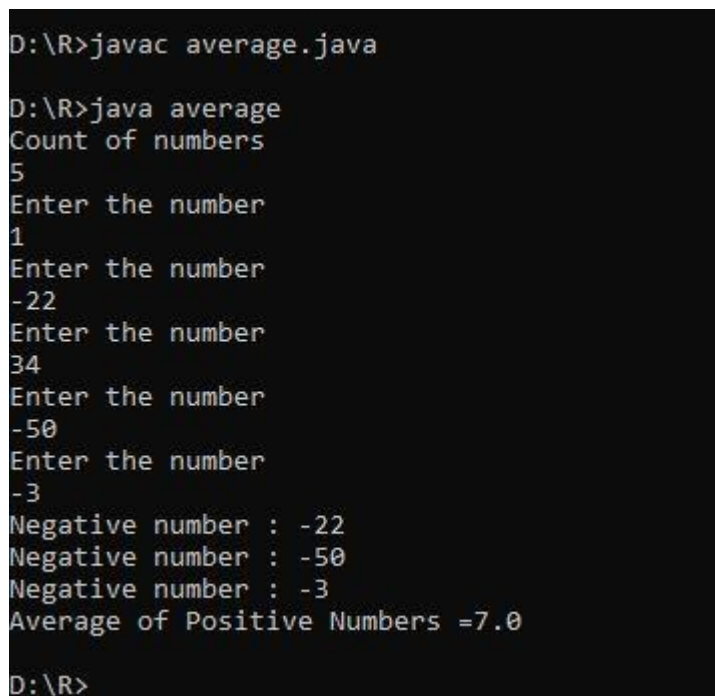
```
import avg.*;
import java.util.Scanner;
public class average {
    public static void main(String[] args) {
        double sum = 0;
        Scanner sc = new Scanner(System.in);
        System.out.println("Count of numbers");
        int N = sc.nextInt();
        int[] numbers = new int[N];
        for(int i =0;i<N; i++){
            System.out.println("Enter the number");
            numbers[i] = sc.nextInt();
        }
        for(int i =0;i<N; i++){
            try {
                if (numbers[i] >= 0) {
                    sum += numbers[i];
                } else {
                    throw new negative_exception("Negative number : " +numbers[i]);
                }
            }
        }
        catch (negative_exception e){
            System.out.println(e.getMessage());
        }
    }
}
```

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```
        }  
    }  
    double avg = sum/N;  
    System.out.println("Average of Positive Numbers =" + avg);  
}  
}
```

```
import avg.*;  
public class negative_exception extends Exception{  
    public negative_exception(String s){  
        super(s);  
    }  
}
```

Output Screenshot



```
D:\R>javac average.java  
D:\R>java average  
Count of numbers  
5  
Enter the number  
1  
Enter the number  
-22  
Enter the number  
34  
Enter the number  
-50  
Enter the number  
-3  
Negative number : -22  
Negative number : -50  
Negative number : -3  
Average of Positive Numbers =7.0  
D:\R>
```