

**OBJECT ORIENTED PROGRAMING LAB****Experiment No.: 20****Aim**

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

**Procedure**

```
import java.util.Scanner;

public class IntegerNum{

    public static class InvalidNumberException extends Exception {

        public InvalidNumberException() {

            super("Please provide a valid number!");

        }

    }

    public static void main(String [] args){

        Scanner sc=new Scanner(System.in);

        int c,num,sum=0;

        double avg;

        System.out.println("enter the count:");

        c=sc.nextInt();

        System.out.println("enter the Numbers:");

        for(int i=0;i<c;i++){

            try{

                num=sc.nextInt();

                if(num>0){

                    sum+=num;

                }

            }

            catch(InvalidNumberException e){

                System.out.println(e.getMessage());

            }

        }

        avg=sum/c;

        System.out.println("Average of the numbers is: "+avg);

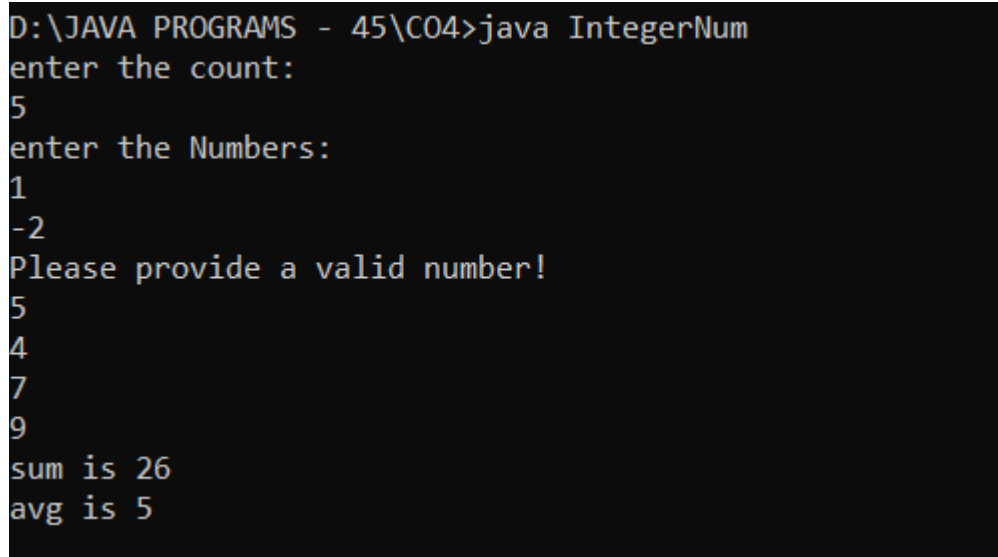
    }

}
```

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```
}else{  
i--;  
throw new InvalidNumberException();  
}  
}  
catch(InvalidNumberException e){  
System.out.println(e.getMessage());  
}  
}  
System.out.println("sum is "+sum);  
System.out.println("avg is "+sum/c);  
}  
}
```

### **Output Screenshot**



```
D:\JAVA PROGRAMS - 45\C04>java IntegerNum  
enter the count:  
5  
enter the Numbers:  
1  
-2  
Please provide a valid number!  
5  
4  
7  
9  
sum is 26  
avg is 5
```