

Computer Programming Java

LAB TASK 1

Faculty: Sathya Raj R

Slot: L3+L4+L29+L30

Venue: SJT 515

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SET 3

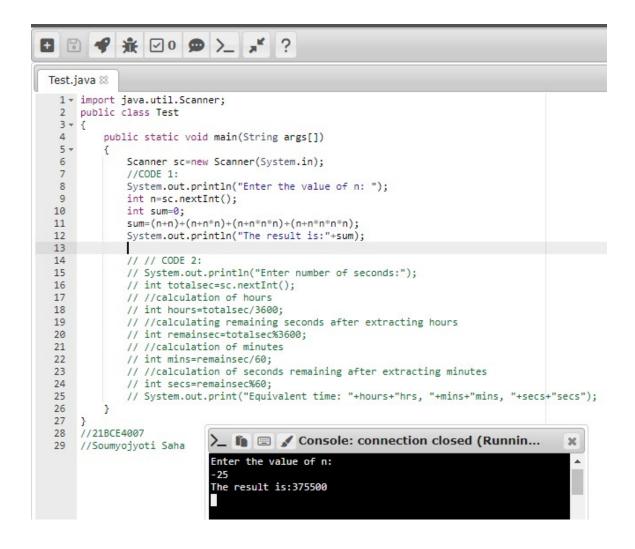
Q1: Write a Java program that accepts an integer (n) from the user and computes the value of $(n+n)+(n+n^2)+(n+n^3)+(n+n^4)$.

CODE:

```
import java.util.Scanner;
public class Test
  public static void main(String args[])
    Scanner sc=new Scanner(System.in);
    //Take user input
    System.out.println("Enter the value of n: ");
    int n=sc.nextInt();
    int sum=0;
    //calculate sum
    sum=(n+n)+(n+n*n)+(n+n*n*n)+(n+n*n*n*n);
    //print result
    System.out.println("The result is:"+sum);
//21BCE4007
//Soumyojyoti Saha
OUTPUT:
1. n=5
```

```
Test.java ⋈
 1 - import java.util.Scanner;
 2 public class Test
 3 - {
 4
         public static void main(String args[])
 5 +
             Scanner sc=new Scanner(System.in);
 6
             //CODE 1:
             System.out.println("Enter the value of n: ");
 8
             int n=sc.nextInt();
 9
10
             int sum=0;
11
             sum=(n+n)+(n+n*n)+(n+n*n*n)+(n+n*n*n*n);
12
             System.out.println("The result is:"+sum);
13
             // // CODE 2:
14
15
             // System.out.println("Enter number of seconds:");
16
             // int totalsec=sc.nextInt();
17
             // //calculation of hours
18
             // int hours=totalsec/3600;
19
             // //calculating remaining seconds after extracting hours
20
             // int remainsec=totalsec%3600;
21
             // //calculation of minutes
             // int mins=remainsec/60;
22
23
             // //calculation of seconds remaining after extracting minutes
24
             // int secs=remainsec%60;
             // System.out.print("Equivalent time: "+hours+"hrs, "+mins+"mins, "+secs+"secs");
25
26
27 }
28 //21BCE4007
                           🔪 🛍 🔳 🖋 Console: connection closed (Running...
29 //Soumyojyoti Saha
                           Enter the value of n:
                           The result is:800
```

2. n=-25



Q2: Write a Java program to convert an integer number of seconds to an equivalent number of hours, minutes, seconds. (Note: Read the input and if input is 52,400? Output as 14hrs, 33min, 20 secs).

CODE:

import java.util.Scanner;

```
public class Test{
public static void main(String[] args) {
Scanner scanner = new Scanner(System.in);
// Prompt user for input
System.out.print("Enter number of seconds: ");
int totalSeconds = scanner.nextInt();
// Calculate hours
int hours = totalSeconds / 3600;
// Calculate remaining seconds after extracting hours
int remainingSeconds = totalSeconds % 3600;
// Calculate minutes
int minutes = remainingSeconds / 60;
// Calculate remaining seconds after extracting minutes
int seconds = remainingSeconds % 60;
// Output the result
System.out.println("Equivalent time: " + hours + "hrs, " + minutes
+ "min, " + seconds + "secs");
scanner.close();
//21BCE4007
//Soumyojyoti Saha
OUTPUT:
1.Total Seconds=52400
```

```
Test.java ⋈
 1 - import java.util.Scanner;
 2 public class Test
 3 - {
 4
        public static void main(String args[])
 5 +
 6
            Scanner sc=new Scanner(System.in);
 7
            // CODE 1:
 8
            // System.out.println("Enter the value of n: ");
 9
            // int n=sc.nextInt();
10
            // int sum=0;
11
            // sum=(n+n)+(n+n*n)+(n+n*n*n)+(n+n*n*n*n);
            // System.out.println("The result is:"+sum);
12
13
14
            // CODE 2:
15
            System.out.println("Enter number of seconds:");
16
            int totalsec=sc.nextInt();
17
            //calculation of hours
18
            int hours=totalsec/3600;
            //calculating remaining seconds after extracting hours
19
            int remainsec=totalsec%3600;
20
21
            //calculation of minutes
22
            int mins=remainsec/60;
23
            //calculation of seconds remaining after extracting minutes
24
            int secs=remainsec%60;
            System.out.print("Equivalent time: "+hours+"hrs, "+mins+"mins, "+secs+"secs");
25
26
27
28
    //21BCE4007
                          ×
    //Soumyojyoti Saha
29
                          Enter number of seconds:
                          52400
                          Equivalent time: 14hrs, 33mins, 20secs
```

2.Total_Seconds=72560

```
□ □ ♥ ★ ☑ 0 ● >_ * ?
 Test.java ⋈
   1 - import java.util.Scanner;
   2 public class Test
   3 + {
   4
          public static void main(String args[])
   5 +
   6
              Scanner sc=new Scanner(System.in);
   7
              // CODE 1:
   8
              // System.out.println("Enter the value of n: ");
   9
              // int n=sc.nextInt();
              // int sum=0;
  10
  11
              // sum=(n+n)+(n+n*n)+(n+n*n*n)+(n+n*n*n*n);
  12
              // System.out.println("The result is:"+sum);
  13
  14
  15
              System.out.println("Enter number of seconds:");
              int totalsec=sc.nextInt();
  16
  17
              //calculation of hours
  18
              int hours=totalsec/3600;
  19
              //calculating remaining seconds after extracting hours
              int remainsec=totalsec%3600;
  20
  21
              //calculation of minutes
  22
              int mins=remainsec/60;
  23
              //calculation of seconds remaining after extracting minutes
  24
              int secs=remainsec%60;
              System.out.print("Equivalent time: "+hours+"hrs, "+mins+"mins, "+secs+"secs");
  25
  26
  27
     }
  28
      //21BCE4007
                            🔪 👔 🔳 🖋 Console: connection closed (Runnin...
                                                                                       ×
      //Soumyojyoti Saha
  29
                            Enter number of seconds:
                            Equivalent time: 20hrs, 9mins, 20secs
```

END