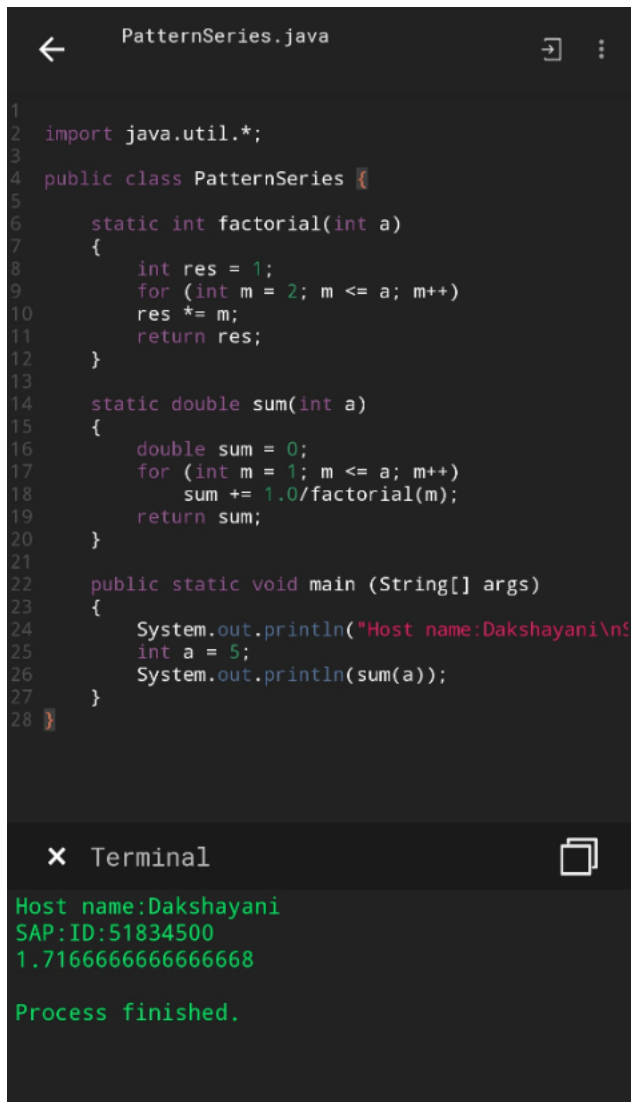


Dakshayani\_july\_30

4th question and answer



```
PatternSeries.java

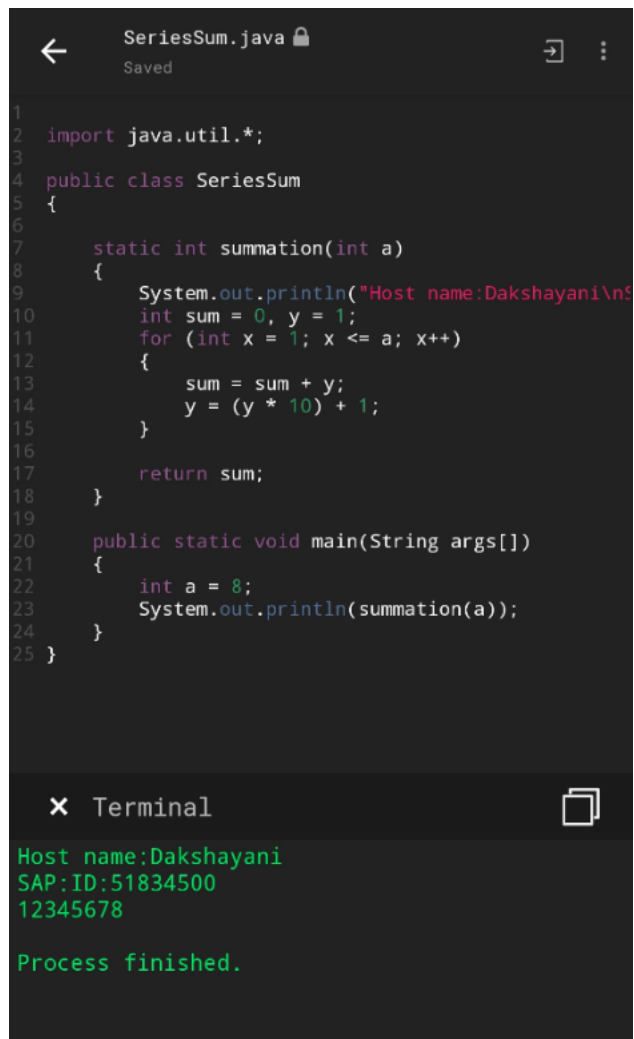
1
2 import java.util.*;
3
4 public class PatternSeries {
5
6     static int factorial(int a)
7     {
8         int res = 1;
9         for (int m = 2; m <= a; m++)
10             res *= m;
11         return res;
12     }
13
14     static double sum(int a)
15     {
16         double sum = 0;
17         for (int m = 1; m <= a; m++)
18             sum += 1.0/factorial(m);
19         return sum;
20     }
21
22     public static void main (String[] args)
23     {
24         System.out.println("Host name:Dakshayani\nSAP:ID:51834500\n1.7166666666666668");
25         int a = 5;
26         System.out.println(sum(a));
27     }
28 }
```

**Terminal**

```
Host name:Dakshayani
SAP:ID:51834500
1.7166666666666668

Process finished.
```

5th question and answer



The screenshot shows a code editor window titled "SeriesSum.java" with a "Saved" status. The code is a Java program that calculates the sum of a series. The terminal output shows the program's execution, including the host name, SAP ID, and the calculated sum.

```
1
2 import java.util.*;
3
4 public class SeriesSum
5 {
6
7     static int summation(int a)
8     {
9         System.out.println("Host name:Dakshayani\nSAP:ID:51834500\n12345678");
10        int sum = 0, y = 1;
11        for (int x = 1; x <= a; x++)
12        {
13            sum = sum + y;
14            y = (y * 10) + 1;
15        }
16
17        return sum;
18    }
19
20    public static void main(String args[])
21    {
22        int a = 8;
23        System.out.println(summation(a));
24    }
25 }
```

Terminal Output:

```
Host name:Dakshayani
SAP:ID:51834500
12345678

Process finished.
```

Mock assignment

Marks:-15

