

```
1 import java.util.*;
2
3 public class Main
4 {
5
6     static int summation(int a)
7     {
8         System.out.println("Name:pavan kumar");
9         System.out.println("Sap id:51834695");
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 = 5;
23        System.out.println(summation(a));
24    }
25 }
```

Name:pavan kumar
Sap id:51834695
12345

Process finished.

```
1 import java.util.*;
2
3 public class Main {
4
5     static int factorial(int a)
6     {
7         int res = 1;
8         for (int m = 2; m <= a; m++)
9             res *= m;
10        return res;
11    }
12
13    static double sum(int a)
14    {
15        double sum = 0;
16        for (int m = 1; m <= a; m++)
17            sum += 1.0/factorial(m);
18        return sum;
19    }
20
21    public static void main (String[] args)
22    {
23        System.out.println("Name:pavan kumar");
24        System.out.println("Sap id:51834695");
25        int a = 10;
26        System.out.println(sum(a));
27    }
28 }
```

Name:pavan kumar
Sap id:51834695
1.7182818011463847

Process finished.