

```
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.  
|
```