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4th Answer

```
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("Author:S.Nithin\nSAP
24         int a = 5;
25         System.out.println(sum(a));
26     }
27 }
```

× Terminal



```
Author:S.Nithin
SAP ID:51834789
1.7166666666666668
```

```
Process finished.
```

5th Answer

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

× Terminal



```
Author:S.NITHIN
SAP ID:51834789
12345
```

```
Process finished.
```