



java1.java



Saved

```
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("S.Renu varshith 51834531");
24        int a = 6;
25        System.out.println(sum(a));
26    }
27 }
```



Terminal



```
S.Renu varshith 51834531
1.7180555555555557
```

```
Process finished.
```



java1.java



Saved

```
1  import java.util.*;
2
3  public class Main
4  {
5
6      static int summation(int a)
7      {
8          System.out.println("S.Renu varshith 51834531");
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 = 8;
22         System.out.println(summation(a));
23     }
24 }
```



Terminal



```
S.Renu varshith 51834531
12345678
```

```
Process finished.
```