Assignment

4) import java.util.*;

```
public class Main {

   static int factorial(int a)
   {
      int res = 1;
      for (int m = 2; m <= a; m++)
      res *= m;
      return res;
   }

   static double sum(int a)
   {
      double sum = 0;
      for (int m = 1; m <= a; m++)
         sum += 1.0/factorial(m);
      return sum;
   }

   public static void main (String[] args)
   {
      System.out.println("Author:M.Sunayana\nSAP ID:51834790");
      int a = 5;
```

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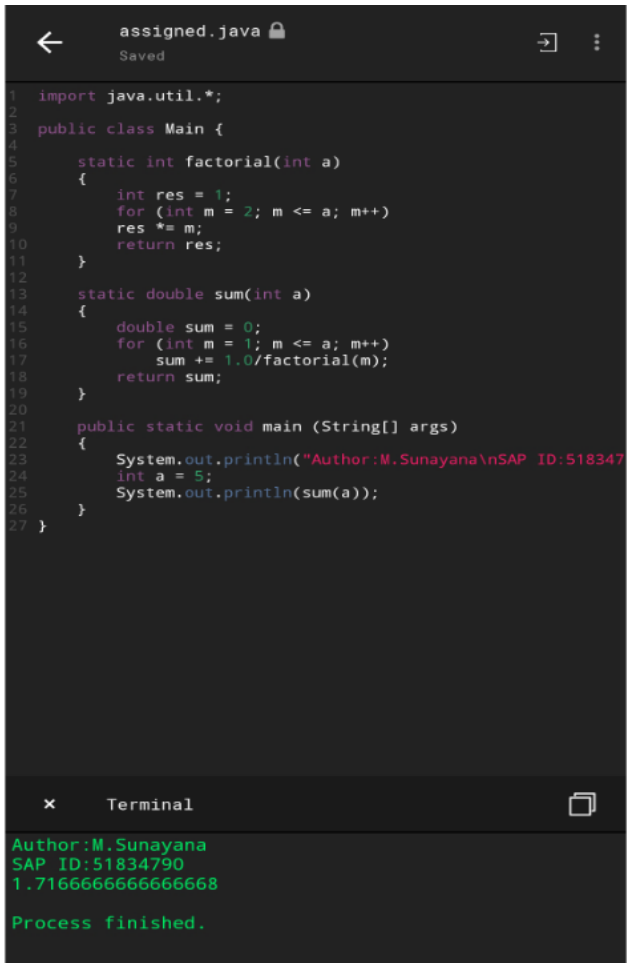
```
        System.out.println(sum(a));
    }
}
```



5) import java.util.*;

public class Main

{

    static int summation(int a)

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```
    {
        System.out.println("Author:M.Sunayana\nSAP ID:51834790");
        int sum = 0, y = 1;
        for (int x = 1; x <= a; x++)
        {
            sum = sum + y;
            y = (y * 10) + 1;
        }

        return sum;
    }

    public static void main(String args[])
    {
        int a = 5;
        System.out.println(summation(a));
    }
}
```

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assigned.java

Saved

```java
import java.util.*;

public class Main
{

    static int summation(int a)
    {
        System.out.println("Author:M.Sunayana\nSAP ID:518347
        int sum = 0, y = 1;
        for (int x = 1; x <= a; x++)
        {
            sum = sum + y;
            y = (y * 10) + 1;
        }

        return sum;
    }

    public static void main(String args[])
    {
        int a = 5;
        System.out.println(summation(a));
    }
}
```

Terminal

```
Author:M.Sunayana
SAP ID:51834790
12345

Process finished.
```

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