

1.

```
1  java.util.Scanner;
2
3  BookMyshow {
4
5      String movie_name;
6      String theatre_name;
7
8      int cost;
9
10     movies() {
11
12         System.out.println("the movies available are");
13         System.out.println("1.Sahoo ----- Rs.180 \n 2.Dil Bechara
14
15
16
17
18
19
20     class extends BookMyshow {
21         int no_of_tickets;
22         th() {
```

× Terminal



```
Author:P.Jaganmohan
SAP ID:51834796
1.list of movies and their prices
2.access and book tickets through theaters
1
the movies available are
1.Sahoo ----- Rs.180
2.Dil Bechara - Rs.150
3.Extraction ---- Rs.190
4.Ala Vaikuntapuramlo ----- Rs.200

Process finished.
```

4.

```
1  port java.util.*;
2
3  ublic 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:P Jaganmohan\nSAP ID:51834796\n");
24         int a = 5;
25         System.out.println(sum(a));
26     }
27
```

× Terminal



```
Author:P Jaganmohan
SAP ID:51834796
1.7166666666666668
```

```
Process finished.
```

5.

```
1  import java.util.*;
2
3  public class Main
4  {
5
6      static int summation(int a)
7      {
8          System.out.println("Author:P Jaganmohan\nSAP ID:51834796\n12345");
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:P Jaganmohan
SAP ID:51834796
12345
```

```
Process finished.
```