

## **JULY-30 ASSIGNMENT**

### **Question1:**

```
import java.util.Scanner;
```

```
class BookMyshow {
```

```
    private String movie_name;
```

```
    private String theatre_name;
```

```
    private int cost;
```

```
    void movies() {
```

```
        System.out.println("the movies available are");
```

```
        System.out.println(" 1.Sahoo ----- Rs.180 \n 2.Dil Bechara - Rs.150 \n 3.Extraction ----  
Rs.190 \n 4.Ala Vaikuntapuramlo ----- Rs.200 ");
```

```
    }
```

```
}
```

```
class thea extends BookMyshow {
```

```
    private int no_f_tickets;
```

```

void th() {

    System.out.println("*****the theaters available are***** \n 1.Sai Karthik th \n
2.Sunrise th");

    int k;

    int an;

    Scanner sc = new Scanner(System.in);

    int n = sc.nextInt();

    if (n == 1) {

        System.out.println("*****Sai Karthik*****");

        System.out.println("*****select a movie*****");

        System.out.println("movie available are \n 1.Sahoo \n 2.Dil Bechara ");

        Scanner a = new Scanner(System.in);

        int o = a.nextInt();

        if (o == 1) {

            System.out.println("Sahoo movie @ Vishwanadh theater");

            System.out.println("enter the number of tickets to be booked");

            Scanner j = new Scanner(System.in);

            int r = j.nextInt();

            int left= no_f_tickets-r;

            int amount=40*r;

            System.out.println("to continue to book for this movie prees 1");

            Scanner d = new Scanner(System.in);

            int h = d.nextInt();

            System.out.println("\n\n\n");

```

```

        if (h == 1) {

System.out.println("*****");

        System.out.println("theater ----- Sai Karthik theater");

        System.out.println("movie ----- Sahoo");

        System.out.println("cost ----- Rs." + amount);

System.out.println("*****");

        }

    }

    if (o == 2) {

        System.out.println("Dil Bechara @Sai Karthik theater");

        System.out.println("enter the number of tickets to be booked");

        Scanner j = new Scanner(System.in);

        int r = j.nextInt();

        int left = no_f_tickets - r;

        int amount = 50 * r;

        System.out.println("to continue to book for this movie press 1");

        Scanner d = new Scanner(System.in);

        int h = d.nextInt();

        System.out.println("\n\n\n");

        if (h == 1) {

System.out.println("*****");

```

```

        System.out.println("theater ----- Sai Karthik theater");

        System.out.println("movie ----- staurt little");

        System.out.println("cost ----- Rs"+amount);

System.out.println("*****");

    }

}

}

if (n == 2) {

    System.out.println("*****Melody theater*****");

    System.out.println("*****select a movie*****");

    System.out.println("movie available are \n 3.Extraction movie \n 4.fun movie");

    Scanner b = new Scanner(System.in);

    int p = b.nextInt();

    Scanner a = new Scanner(System.in);

    int o = a.nextInt();

    if (o == 1) {

        System.out.println("Extraction movie @ Sunrise theater");

        System.out.println("enter the number of tickets to be booked");

        Scanner j = new Scanner(System.in);

        int r = j.nextInt();

        int left= no_f_tickets-r;

```

```

    int amount=60*r;

    System.out.println("to continue to book for this movie prees 1");

    Scanner d = new Scanner(System.in);

    int h = d.nextInt();

    System.out.println("\n\n\n");

    if (h == 1) {

        System.out.println("*****");

        System.out.println("theater ----- Sunrise theater");

        System.out.println("movie ----- Extraction movie");

        System.out.println("cost ----- Rs." + amount);

        System.out.println("*****");

    }

}

if (o == 2) {

    System.out.println("fun little @Sunrise theater");

    System.out.println("enter the number of tickets to be booked");

    Scanner j = new Scanner(System.in);

    int r = j.nextInt();

    int left= no_f_tickets-r;

    int amount=70*r;

    System.out.println("to continue to book for this movie prees 1");

    Scanner d = new Scanner(System.in);

```

```
moviename[0] = ob;
```

```
thea a = new thea();
```

```
moviename[1] = a;
```

```
System.out.println("Author:T. Iswarya\nSAP ID:51834773");
```

```
System.out.println("1.list of movies and their prices\n2.acces and book tickets through  
theaters");
```

```
Scanner d = new Scanner(System.in);
```

```
int h = d.nextInt();
```

```
switch (h) {
```

```
    case 1: {
```

```
        ob.movies();
```

```
        break;
```

```
    }
```

```
    case 2: {
```

```
        a.th();
```

```
    }
```


```
}
```

```
}
```

```
}
```

**Output:**



```
× Terminal 
Author:T. Iswarya
SAP ID:51834773
1.list of movies and their prices
2.acces and book tickets through theaters
2
*****the theaters available are*****
  1.Sai Karthik th
  2.Sunrise th
1
*****Sai Karthik*****
*****select a movie*****
movie available are
  1.Sahoo
  2.DIl Bechara
2
DIl Bechara @Sai Karthik theater
enter the number of tickets to be booked
2
to continue to book for this movie prees 1
1

*****
theater ----- Sai Karthik theater
movie ----- staurt little
cost ----- Rs100
*****

Process finished.
█
```

Question 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:T. ISWARYA\nSAP ID:51834773");  
  
int a = 6;  
  
System.out.println(sum(a));  
  
}  
  
}
```

**Output:**

```
× Terminal
Author:T. ISWARYA
SAP ID:51834773
1.718055555555557
Process finished.
```

Question 5:

```
import java.util.*;
```

```
public class Main
```

```
{
```

```
    static int summation(int a)
```

```
    {
```

```
        System.out.println("Author:T. ISWARYA\nSAP  
ID:51834773");
```

```
        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 = 7;  
    System.out.println(summation(a));  
}  
}
```

## Output:

```
× Terminal   
Author:T. ISWARYA  
SAP ID:51834773  
1234567  
  
Process finished.
```