

Assignment:

5. 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.vyjayanthi\nSAP ID:51834774");

int a = 5;

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

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

```
public class Main  
{
```

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

```
    {
```

```
        System.out.println("Author:T.vyjayanthi\nSAP ID:51834774");
```

```
        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));
    }
}
```

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

```
class BookMyshow {
```

```
    private String move_name;
```

```
    private String thetre_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.Jagadamba th \n
2.Melody th");

    int k;

    int an;

    Scanner sc = new Scanner(System.in);

    int n = sc.nextInt();

    if (n == 1) {

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

        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 @ kaurnya 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 ----- Jagadamba theater");

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

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

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

}

if (o == 2) {

    System.out.println("Dil Bechara @Jagadamba 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 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 ----- Jagadamba 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 @Melody 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 ----- Melody theater");

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

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

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

}

if (o == 2) {

    System.out.println("fun little @Melody 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);

    int h = d.nextInt();

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

    if (h == 1) {

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

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

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

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

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

```

```

    }

    }

}

}

}

public class Main {

    public static void main(String[] args) {

        BookMyshow ob = new BookMyshow();

        BookMyshow[] moviename = new BookMyshow[2];

        moviename[0] = ob;

        thea a = new thea();

        moviename[1] = a;

        System.out.println("Author:T.vyjayanthi\nSAP ID:51834774");

        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();  
    }  
}  
  
}  
  
}
```