

QUESTION 1:

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

```
class Justtickets {
```

```
    private String move_name;
```

```
    private String thetre_name;
```

```
    private int cost;
```

```
    void movies() {
```

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

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

```
    }
```

```
}
```

```
class just extends Justtickets {
```

```
    private int no_f_tickets;
```

```
    void th() {
```

```
        System.out.println("***the theaters available are** \n 1.Kanya 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("**kanya theater**");

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

    System.out.println("movie available are \n 1.Snv \n 2.Dia");

    Scanner a = new Scanner(System.in);

    int o = a.nextInt();

    if (o == 1) {

        System.out.println("Snv movie @ kanya 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=180*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 ----- kanya theater");

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

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

```

```

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

}

if (o == 2) {
    System.out.println("Dia @kanya 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=150*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 ----- kanta theater");

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

        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.Ala vaikuntapuramalo
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=190*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("Ala vaikuntapuramalo @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=200*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 ----- Ala vaikuntapuramalo movie");
        System.out.println("cost ----- Rs." + amount);
        System.out.println("*****");
    }

}

}
}

```

```
}  
}
```

```
public class Main {
```

```
    public static void main(String[] args) {
```

```
        Justtickets ob = new Justtickets();
```

```
        Justtickets[] moviename = new Justtickets[2];
```

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

```
        just a = new just();
```

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

```
        System.out.println("Program by Manasa\nJava1\nSAP ID:51834754");
```

```
        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();
    }
}

}
}

```

```

Program by Manasa
Java1
SAP ID:51834754
1.list of movies and their prices
2.acces and book tickets through theaters
1
the movies available are
1.Snv ----- Rs.180
2.Dia - Rs.150
3.Extraction ---- Rs.190
4.Ala Vaikuntapuramlo ----- Rs.200

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("Program by Manasa\nJava1\nSAP ID:51834754");  
    int a = 3;  
    System.out.println(sum(a));  
}  
}
```



```

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("Program by Manasa\nJava1
24        int a = 3;
25        System.out.println(sum(a));
26    }
27 }

```

× Terminal

```

Program by Manasa
Java1
SAP ID:51834754
1.6666666666666667

Process finished.

```

QUESTION 5:

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

```
public class Main
```

```
{
```

```
static int summation(int a)
{
    System.out.println("Program by Manasa\nJava1\nSAP ID:51834754");
    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));
}
}
```

```
1 import java.util.*;
2
3 public class Main
4 {
5
6     static int summation(int a)
7     {
8         System.out.println("Program by Manasa\nJava
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 = 7;
22        System.out.println(summation(a));
23    }
24 }
```

× Terminal

```
Program by Manasa
Java1
SAP ID:51834754
1234567
```

Process finished.

QUIZ MARKS:13