



1st question 31 july.java



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```
1  /*1st uestion 31st july*/
2  import java.util.*;
3  class Height
4  {
5      private int feet;
6      private int inches;
7      public void getHeight()
8      {
9
10         Scanner sc=new Scanner(System.in);
11         System.out.print("Enter feet: ");
12         feet=sc.nextInt();
13         System.out.print("Enter inches: ");
14         inches=sc.nextInt();
15     }
16     //Method to show height
17     public void showHeight()
18     {
19         System.out.println(feet + " " + "feet" + " " + inches + " " + "\tInches: ");
20     }
21     //Add height method
22     public void addHeight(Height H1, Height H2)
23     {
24         inches=H1.inches+H2.inches;
25         feet=H1.feet+H2.feet+(inches/12);
26         inches=inches%12;
27     }
28 }
29
```

```
29
30 public class FeetInch
31 {
32     public static void main(String []s)
33     {
34         try
35         {
36             Height H1=new Height();
37             Height H2=new Height();
38             Height H3=new Height();
39
40             System.out.println("Tarunsai\nSAP=51834698");
41             System.out.println("Enter first Height: ");
42             H1.getHeight();
43
44             System.out.println("Enter second Height: ");
45             H2.getHeight();
46
47             //add heights
48             H3.addHeight(H1,H2);
49             //print Height
50             System.out.println("Total Height is:");
51             H3.showHeight();
52         }
53         catch (Exception e)
54         {
55             System.out.println("An exception occurred :"+ e.toString());
56         }
57     }
58 }
```



Terminal



Tarunsai

SAP=51834698

Enter first Height:

Enter feet: 6

Enter inches: 4

Enter second Height:

Enter feet: 5

Enter inches: 7

Total Height is:

11 feet 11 Inches:


Process finished.





```
1  /*2nd question 31st july*/
2  import java.util.Scanner;
3  class Furniture extends Fur
4  {
5      public static void main(String args[])
6      {
7          Scanner scan = new Scanner(System.in);
8          System.out.println("Tarun sai\nSAP=51834698");
9          System.out.println("Welcome to furniture world");
10         System.out.println("Enter your name:");
11         String name = scan.nextLine();
12         System.out.println("customer name: "+name);
13         Fur s = new Fur();
14         s.getInput();
15     }
16 }
17 class Fur
18 {
19     Scanner scan = new Scanner(System.in);
20     int choice;
21     public void getInput()
22     {
23         System.out.println("select one option:");
24         System.out.println("1.Make an order");
25         System.out.println("2.exit");
26         System.out.println("Enter any option");
27         int choice = scan.nextInt();
28         switch (choice)
29         {
30             case 1:
31                 getDetails();
32                 break;
33             case 2:
34                 System.out.println("Thank you for visiting");
35                 break;
36             default:
37                 System.out.println("Enter valid option");
38         }
39     }
}
```




2nd question 31 july.java 



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```
40 public void getDetails()
41 {
42     System.out.println("Furniture World");
43     System.out.println("Available stock");
44     System.out.println("1.Chair");
45     System.out.println("2.beds");
46     System.out.println("3.shelves");
47     System.out.println("Enter any option");
48     choice=scan.nextInt();
49     switch(choice)
50     {
51     case 1:
52         getChair();
53         getInput();
54         break;
55     case 2:
56         getBed();
57         getInput();
58         break;
59     case 3:
60         getShelves();
61         getInput();
62     default:
63         System.out.println("Enter valid option: ");
64     }
65 }
```

```
66 public void getChair()
67 {
68     scan.nextLine();
69     System.out.println("Which type of chair you want");
70     String type = scan.nextLine();
71     System.out.println("Any specifications or changes(if no please enter n");
72     String spec = scan.nextLine();
73     System.out.println("How many number of chairs: ");
74     int num = Integer.parseInt(scan.nextLine());
75     System.out.println("TYPE , SPECIFICATIONS , NUMBER");
76     System.out.println(type+" "+"\\n"+spec+" "+"\\n"+num);
77 }
78 public void getBed()
79 {
80     scan.nextLine();
81     System.out.println("Which type of bed you want: ");
82     String typ = scan.nextLine();
83     System.out.println("Any specifications or changes(if no please enter n");
84     String spe = scan.nextLine();
85     System.out.println("How many number of beds: ");
86     int nu = scan.nextInt();
87     System.out.println("TYPE , SPECIFICATIONS , NUMBER");
88     System.out.println(typ+" "+"\\n"+spe+" "+"\\n"+nu);
89 }
90 public void getShelves()
91 {
92     scan.nextLine();
93     System.out.println("Which type of shelf you want: ");
94     String types = scan.nextLine();
95     System.out.println("Any specifications or changes(if no please enter n");
96     String specs = scan.nextLine();
97     System.out.println("How many number of shelves: ");
98     int numb = scan.nextInt();
99     System.out.println("TYPE , SPECIFICATIONS , NUMBER");
100    System.out.println(types+" "+"\\n"+specs+" "+"\\n"+numb);
101 }
102 }
```



```
Tarun sai
SAP=51834698
Welcome to furniture world
Enter your name:
Tarun Sai
customer name: Tarun Sai
select one option:
1.Make an order
2.exit
Enter any option
1
Furniture World
Available stock
1.Chair
2.beds
3.shelves
Enter any option
1
Which type of chair you want
Indian company
Any specifications or changes(if no please enter no)
4 legs and scalps on the chair
How many number of chairs:
4
TYPE , SPECIFICATIONS , NUMBER
Indian company
4 legs and scalps on the chair
4
select one option:
1.Make an order
2.exit
Enter any option
2
Thank you for visiting

Process finished.
```




4th question 31july.java



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```
1  /*pattern 31st july*/
2  public class Main
3  {
4      public static void main(String[] args)
5      {
6          System.out.println("Tarun sai\nSAP=51834698");
7          int i,j,k;
8          for(i=1;i<=5;i++)
9          {
10             for(j=5;j>i;j--)
11             {
12                 System.out.print(" ");
13             }
14             if(i%2!=0)
15             {
16                 for(j=1,k=1;j<=2*i-1;j++)
17                 {
18                     if(j<i)
19                     {
20                         System.out.print(k);
21                         k++;
22                     }
23                     else
24                     {
25                         System.out.print(k);
26                         k--;
27                     }
28                 }
29             }
30         }
31     }
32 }
```



```
30     else
31     {
32         for(j=1,k=i;j<=2*i-1;j++)
33         {
34             if(j<i)
35             {
36                 System.out.print(k);
37                 k--;
38             }
39             else
40             {
41                 System.out.print(k);
42                 k++;
43             }
44         }
45     }
46     System.out.println();
47 }
48 }
49 }
```



Terminal



Tarun sai

SAP=51834698

1

212

12321

4321234

123454321

Process finished.



5th question 31 july.java

Saved



```
1  /*5th question 31st july*/
2  import java.util.Scanner;
3  public class Series {
4  public static void main(String[] args) {
5  int n;
6  float sum;
7  int count;
8  System.out.println("Tarunsai\nSAP=51834698");
9  System.out.print("\nEnter total number of terms : ");
10 n = STDIN_SCANNER.nextInt();
11 sum = 0.0f;
12 count = 1;
13 for(int i = 1; i <= n; i++) {
14 sum = sum + (float)Math.pow(count, 2) / (float)Math.pow(count, 3);
15 count += 2;
16 }
17
18 System.out.printf("\nSum of the series is : %f\n", sum);
19 }
20
21 public final static Scanner STDIN_SCANNER = new Scanner(System.in);
22 }
```



Terminal



Tarunsai

SAP=51834698

Enter total number of terms : 5

Sum of the series is : 1.787302

Process finished.



Terminal



Tarunsai

SAP=51834698

Enter total number of terms : 6

Sum of the series is : 1.878211

Process finished.