JAVA LAB EXPERIMENT NO: 04

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Class: SE9

Batch: C

Roll No.: 38

AIM: **Program on array of objects.**

PROBLEM STATEMENT: **Define a class Hotel with information such as Hotel Name, City , Room charge. Write a program that reads information about 'n' hotels and display the list of hotels in ascending order of their room charges.**

Program:

```java
import java.util.*;

public class exp4
{
  void main()
  {
    System.out.print('\u000C');
    Scanner sc=new Scanner(System.in);
    int n,i,j;
    System.out.println("Enter the no of hotels: ");
    n=sc.nextInt();
    hotel h[]=new hotel[n];
    hotel t;
    for(i=0;i<n;i++)
    {
      h[i]=new hotel();
    }
    for(i=1;i<n;i++)
    {
      for(j=0;j<i;j++)
      {
        if(h[i].ch<h[j].ch)
        {
          t=h[i];
          h[i]=h[j];
```
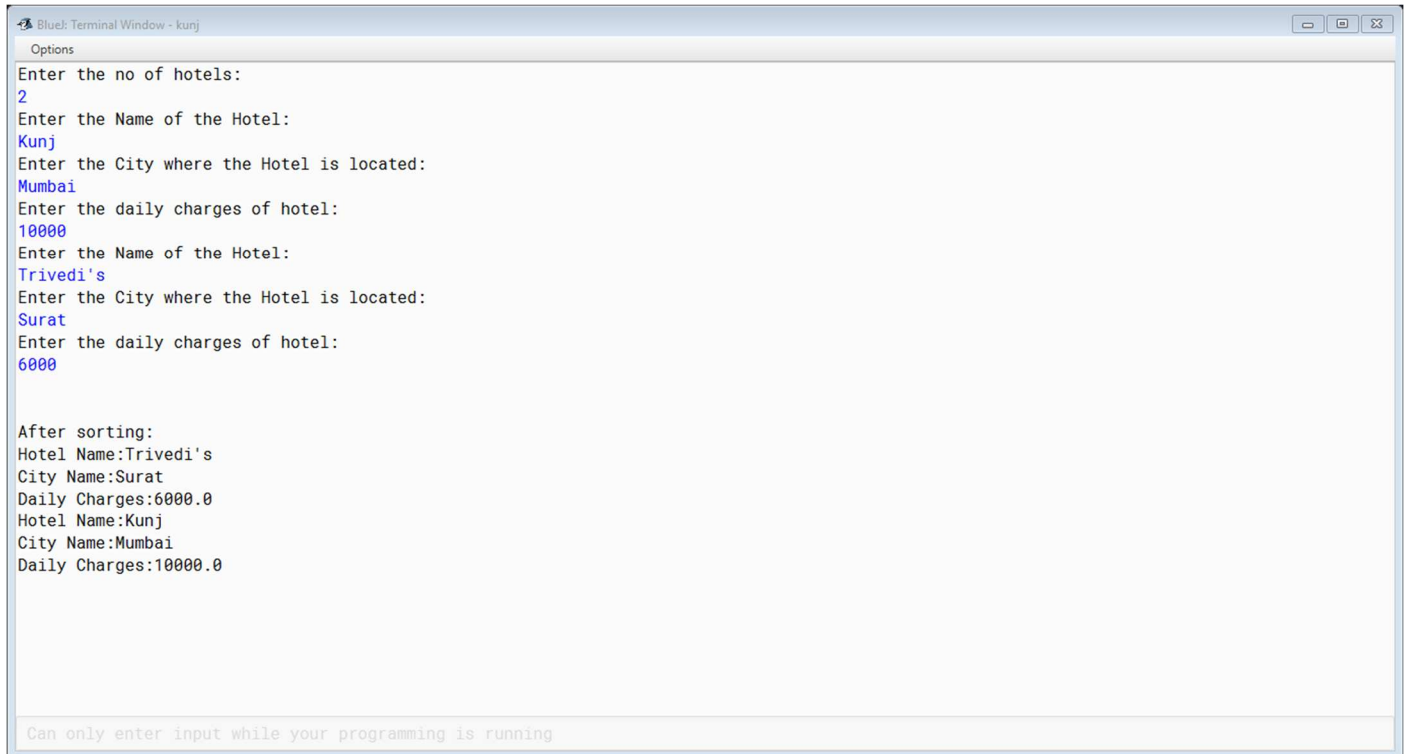
```java
                h[j]=t;
            }
        }
    }
    System.out.println("\n\nAfter sorting: ");
    for(i=0;i<n;i++)
    {
        h[i].display();
    }
  }
}
class hotel
{
    String name,city;
    float ch;
    hotel()
    {
        Scanner sc=new Scanner(System.in);
        System.out.println("Enter the hotel name: ");
        name=sc.next();
        System.out.println("Enter the name of the city: ");
        city=sc.next();
        System.out.println("Enter the charges of the hotel room: ");
        ch=sc.nextFloat();
    }
    void display()
    {
        System.out.println("Hotel name: "+name);
        System.out.println("City: "+city);
        System.out.println("Room charges: "+ch);
    }
}
```

Output:

```
BlueJ: Terminal Window - kunj                                    _  □  ☒
 Options
Enter the no of hotels:
2
Enter the Name of the Hotel:
Kunj
Enter the City where the Hotel is located:
Mumbai
Enter the daily charges of hotel:
10000
Enter the Name of the Hotel:
Trivedi's
Enter the City where the Hotel is located:
Surat
Enter the daily charges of hotel:
6000


After sorting:
Hotel Name:Trivedi's
City Name:Surat
Daily Charges:6000.0
Hotel Name:Kunj
City Name:Mumbai
Daily Charges:10000.0




 Can only enter input while your programming is running
```