# RAJALAKSHMI ENGINEERING COLLEGE RAJALAKSHMI NAGAR, THANDALAM – 602 105



CS23333 Object Oriented Programming Using Java

# Laboratory Record Notebook

SRI RATA II P	Name:
2 <sup>nd</sup> vear / B.Tech AIML - 'C'	Year /
Branch / Section:	
2116231501160	University Register No:
231501160	College Roll No:
III <sup>rd</sup> Semester	Semester:
2023 - 2024	Δ cademic Year

#### Dashboard / My courses / CS23333-OOPUJ-2023 / Lab-01-Java Architecture, Language Basics / Lab-01-Logic Building

```
Status Finished

Started Thursday, 19 September 2024, 11:12 AM

Completed Thursday, 19 September 2024, 11:22 AM

Duration 10 mins 41 secs
```

```
Question 1
Correct
Marked out of 5.00
```

Write a program to find whether the given input number is Odd.

If the given number is odd, the program should return 2 else It should return 1.

Note: The number passed to the program can either be negative. positive or zero. Zero should NOT be treated as Odd.

#### For example:

Input	Result
123	2
456	1

Answer: (penalty regime: 0 %)

```
1 ▼ import java.io.*;
    import java.util.*;
    public class Odd{
 3 •
 4
        public static void main(String[] args)
 5
 6
             Scanner sc=new Scanner(System.in);
 7
            int a=sc.nextInt();
 8
             if(a%2==1 || a%2==-1)
 9
10
                 System.out.println(2);
11
12
            else if(a%2==0)
13
             {
14
                 System.out.println(1);
15
             }
16
            else if(a==0)
17
18
                 System.out.println(1);
19
             }
20
21 }
```

	Input	Expected	Got	
~	123	2	2	~
~	456	1	1	~

Passed all tests! ✓

```
Question 2
Correct
Marked out of 5.00
```

Write a program that returns the last digit of the given number. Last digit is being referred to the least significant digit i.e. the digit in the ones (units) place in the given number.

The last digit should be returned as a positive number.

For example,

if the given number is 197, the last digit is 7

if the given number is -197, the last digit is 7

#### For example:

Input	Result
197	7
-197	7

Answer: (penalty regime: 0 %)

```
1 v import java.io.*;
    import java.util.*;
    import java.math.*;
3
    public class Last{
4 ▼
        public static void main(String[] args)
5
6 ,
7
            Scanner sc=new Scanner(System.in);
8
            int a=sc.nextInt();
9
            a=Math.abs(a);
            System.out.println(a%10);
10
11
12
```

	Input	Expected	Got	
~	197	7	7	~
~	-197	7	7	~

Passed all tests! ✓

```
Question 3
Correct
Marked out of 5.00
```

Rohit wants to add the last digits of two given numbers.

For example,

If the given numbers are 267 and 154, the output should be 11.

Below is the explanation:

Last digit of the 267 is 7

Last digit of the 154 is 4

Sum of 7 and 4 = 11

Write a program to help Rohit achieve this for any given two numbers.

Note: Tile sign of the input numbers should be ignored.

i.e.

if the input numbers are 267 and 154, the sum of last two digits should be 11

if the input numbers are 267 and -154, the slim of last two digits should be 11

if the input numbers are -267 and 154, the sum of last two digits should be 11

if the input numbers are -267 and -154, the sum of last two digits should be 11

#### For example:

Input	Result
267 154	11
267 -154	11
-267 154	11
-267 -154	11

```
1 import java.io.*;
    import java.util.*;
 3
    import java.math.*;
 4
    public class add{
        public static void main(String[] args)
 5
 6
 7
            Scanner sc=new Scanner(System.in);
 8
             int a=sc.nextInt();
            int b=sc.nextInt();
 9
10
             a=Math.abs(a);
            b=Math.abs(b);
11
12
             int c=(a\%10)+(b\%10);
             System.out.println(c);
13
14
15
```

	Input	Expected	Got	
~	267 154	11	11	<b>~</b>
~	267 -154	11	11	<b>~</b>
~	-267 154	11	11	<b>~</b>
~	-267 -154	11	11	~

Passed all tests! 🗸

# ■ Lab-01-MCQ

Jump to...

Is Even? ►

# Dashboard / My courses / CS23333-OOPUJ-2023 / Lab-02-Flow Control Statements / Lab-02-Logic Building

Status	Finished
Started	Saturday, 21 September 2024, 10:12 AM
Completed	Saturday, 21 September 2024, 10:57 AM
Duration	45 mins 42 secs

```
Question 1
Correct
Marked out of 5.00
```

Write a program that takes as parameter an integer n.

You have to print the number of zeros at the end of the factorial of n.

For example, 3! = 6. The number of zeros are 0. 5! = 120. The number of zeros at the end are 1.

Note: n! < 10^5

Example Input:

3

Output:

0

Example Input:

60

Output:

14

Example Input:

100

Output:

24

Example Input:

1024

Output:

253

# For example:

Input	Result
3	0
60	14
100	24
1024	253

```
Reset answer
     // Java program to count trailing 0s in n!
  2 v import java.io.*;
  3
     import java.util.*;
  4 ،
     class prog {
          // Function to return trailing
  5
  6
          \ensuremath{//} 0s in factorial of n
  7
          static int findTrailingZeros(int n)
  8
              int count=0;
 10
              if (n < 0) // Negative Number Edge Case</pre>
 11
                  return -1;
 12
 13
              // Initialize result
 14
 15
              // Keep dividing n by powers
 16
 17
              // of 5 and update count
 18
              for (int i = 5; n / i >= 1;i*=5)
 19
                   count += n / i;
 20
 21
              return count;
 22
         }
 23
```

```
24
        // Driver Code
25
        public static void main(String[] args)
26 🔻
            int n ;
Scanner sc= new Scanner(System.in);
27
28
29
            n=sc.nextInt();
            int x=findTrailingZeros(n);
30
31
            System.out.println(x);
32
33
    }
34
```

	Input	Expected	Got	
~	3	0	0	~
~	60	14	14	~
~	100	24	24	~
~	1024	253	253	~

Passed all tests! 🗸

1,

```
Question 2
Correct
Marked out of 5.00
```

Write a Java program to input a number from user and print it into words using for loop. How to display number in words using loop in Java programming.

Logic to print number in words in Java programming.

#### Example

#### Input

1234

#### Output

One Two Three Four

Input:

16

Output:

one six

#### For example:

Test	Input	Result
1	45	Four Five
2	13	One Three
3	87	Eight Seven

```
1 * import java.io.*;
    import java.util.*;
 2
 3
    public class Num{
 4
        public static void main(String[] args)
 5
             Scanner sc=new Scanner(System.in);
 6
 7
             int n=sc.nextInt();
 8
             String st=Integer.toString(n);
 9
             char[] arr=st.toCharArray();
10
             for(int i=0;i<arr.length;i++)</pre>
11
                 switch(arr[i])
12
13
14
                     case '0':
                         System.out.print("Zero ");
15
16
                         break;
17
                     case '1':
18
                         System.out.print("One ");
19
                         break;
                     case '2':
20
21
                         System.out.print("Two ");
22
                         break;
                     case '3':
23
24
                         System.out.print("Three ");
25
                         break;
26
                     case '4':
27
                         System.out.print("Four ");
28
                         break;
29
                     case '5':
30
                         System.out.print("Five ");
31
                         break:
                     case '6':
32
                         System.out.print("Six ");
33
34
                     case '7':
35
36
                         System.out.print("Seven ");
37
                         break;
38
39
                         System.out.print("Eight ");
40
                         break;
                     case '9':
41
                         System.out.print("Nine ");
42
```

```
43 break;
44 }
45 }
46 }
47 }
```

	Test	Input	Expected	Got	
~	1	45	Four Five	Four Five	~
~	2	13	One Three	One Three	~
~	3	87	Eight Seven	Eight Seven	~

Passed all tests! 🗸

1,

```
Question 3
Correct
Marked out of 5.00
```

Consider the following sequence:

1st term: 1

2nd term: 1 2 1

3rd term: 1 2 1 3 1 2 1

4th term: 1 2 1 3 1 2 1 4 1 2 1 3 1 2 1

And so on. Write a program that takes as parameter an integer n and prints the nth terms of this sequence.

Example Input:

1

Output:

1

Example Input:

4

Output:

121312141213121

#### For example:

Input	Result
1	1
2	1 2 1
3	1 2 1 3 1 2 1
4	1 2 1 3 1 2 1 4 1 2 1 3 1 2 1

```
1 * import java.io.*;
    import java.util.*;
    public class pattern{
 3 •
 4
        public static void main(String[] args)
 5 •
            Scanner sc=new Scanner(System.in);
 6
            int n=sc.nextInt();
 7
 8
            String res="1";
            for(int i=1;i<n;i++)</pre>
 9
10
                 res+=" "+(i+1)+" "+res;
11
12
13
            System.out.println(res);
14
15 }
```

	Input	Expected	Got	
~	1	1	1	~
~	2	1 2 1	1 2 1	~

# 11/16/24, 9:08 PM

	Input	Expected	Got	
~	3	1 2 1 3 1 2 1	1 2 1 3 1 2 1	~
~	4	1 2 1 3 1 2 1 4 1 2 1 3 1 2 1	1 2 1 3 1 2 1 4 1 2 1 3 1 2 1	~

Passed all tests! 🗸

# ■ Lab-02-MCQ

Jump to...

Lab-03-MCQ ►

# Dashboard / My courses / CS23333-OOPUJ-2023 / Lab-03-Arrays / Lab-03-Logic Building

Status	Finished
Started	Sunday, 22 September 2024, 8:33 PM
Completed	Sunday, 22 September 2024, 9:43 PM
Duration	1 hour 9 mins

```
Question \bf 1
```

Correct

Marked out of 5.00

You are provided with a set of numbers (array of numbers).

You have to generate the sum of specific numbers based on its position in the array set provided to you.

This is explained below:

#### Example 1:

Let us assume the encoded set of numbers given to you is:

input1:5 and input2: {1, 51, 436, 7860, 41236}

#### Step 1:

Starting from the 0<sup>th</sup> index of the array pick up digits as per below:

0th index - pick up the units value of the number (in this case is 1).

1st index - pick up the tens value of the number (in this case it is 5).

2<sup>nd</sup> index - pick up the hundreds value of the number (in this case it is 4).

3<sup>rd</sup> index - pick up the thousands value of the number (in this case it is 7).

4<sup>th</sup> index - pick up the ten thousands value of the number (in this case it is 4).

(Continue this for all the elements of the input array).

The array generated from Step 1 will then be – {1, 5, 4, 7, 4}.

#### Step 2:

Square each number present in the array generated in Step 1.

{1, 25, 16, 49, 16}

#### Step 3:

Calculate the sum of all elements of the array generated in Step 2 to get the final result. The result will be = 107.

#### Note:

- 1) While picking up a number in Step1, if you observe that the number is smaller than the required position then use 0.
- 2) In the given function, input1[] is the array of numbers and input2 represents the number of elements in input1.

### Example 2:

input1: 5 and input1: {1, 5, 423, 310, 61540}

#### Step 1

Generating the new array based on position, we get the below array:

{1, 0, 4, 0, 6}

In this case, the value in input1 at index 1 and 3 is less than the value required to be picked up based on position, so we use a 0.

#### Step 2:

{1, 0, 16, 0, 36}

Step 3:

The final result = 53.

# For example:

Input	Result
5 1 51 436 7860 41236	107
5 1 5 423 310 61540	53

```
int sum=0;
 8
            int n=sc.nextInt();
            int[] arr=new int[n];
 9
10
            for(int i=0;i<n;i++)</pre>
11
            {
12
                 arr[i]=sc.nextInt();
13
14
            int[] p=new int[n];
            for(int i=0;i<n;i++)</pre>
15
16
            {
17
                 p[i]=(arr[i]/(int) Math.pow(10,i)) %10;
18
19
             for(int i:p)
20
             {
21
                 sum+=i*i;
22
             System.out.println(sum);
23
24
        }
25 }
```

	Input	Expected	Got	
~	5 1 51 436 7860 41236	107	107	<b>~</b>
~	5 1 5 423 310 61540	53	53	<b>~</b>

Passed all tests! 🗸

1,

Question 2

Correct

Marked out of 5.00

Given an integer array as input, perform the following operations on the array, in the below specified sequence.

- 1. Find the maximum number in the array.
- 2. Subtract the maximum number from each element of the array.
- 3. Multiply the maximum number (found in step 1) to each element of the resultant array.

After the operations are done, return the resultant array.

#### Example 1:

input1 = 4 (represents the number of elements in the input1 array)

input2 =  $\{1, 5, 6, 9\}$ 

Expected Output = {-72, -36, 27, 0}

Explanation:

Step 1: The maximum number in the given array is 9.

Step 2: Subtracting the maximum number 9 from each element of the array:

$$\{(1-9), (5-9), (6-9), (9-9)\} = \{-8, -4, -3, 0\}$$

Step 3: Multiplying the maximum number 9 to each of the resultant array:

$$\{(-8 \times 9), (-4 \times 9), (3 \times 9), (0 \times 9)\} = \{-72, -36, -27, 0\}$$

So, the expected output is the resultant array {-72, -36, -27, 0}.

Example 2:

input1 = 5 (represents the number of elements in the input1 array)

input2 = {10, 87, 63, 42, 2}

Expected Output = {-6699, 0, -2088, -3915, -7395}

Explanation:

Step 1: The maximum number in the given array is 87.

Step 2: Subtracting the maximum number 87 from each element of the array:

$$\{(10 - 87), (87 - 87), (63 - 87), (42 - 87), (2 - 87)\} = \{-77, 0, -24, -45, -85\}$$

Step 3: Multiplying the maximum number 87 to each of the resultant array:

$$\{(-77 \times 87), (0 \times 87), (-24 \times 87), (-45 \times 87), (-85 \times 87)\} = \{-6699, 0, -2088, -3915, -7395\}$$

So, the expected output is the resultant array {-6699, 0, -2088, -3915, -7395}.

Example 3:

input1 = 2 (represents the number of elements in the input1 array)

 $input2 = \{-9, 9\}$ 

Expected Output = {-162, 0}

Explanation:

Step 1: The maximum number in the given array is 9.

Step 2: Subtracting the maximum number 9 from each element of the array:

 $\{(-9 - 9), (9 - 9)\} = \{-18, 0\}$ 

Step 3: Multiplying the maximum number 9 to each of the resultant array:

 $\{(-18 \times 9), (0 \times 9)\} = \{-162, 0\}$ 

So, the expected output is the resultant array {-162, 0}.

Note: The input array will contain not more than 100 elements

#### For example:

Input	Result
4	-72 -36 -27 0
1 5 6 9	

Input	Result
5 10 87 63 42 2	-6699 0 -2088 -3915 -7395
2 -9 9	-162 0

Answer: (penalty regime: 0 %)

```
1 → import java.io.*;
    import java.util.*;
 2
 3 •
     public class arraychange{
 4
         public static void main(String[] args)
 5 ,
 6
             Scanner sc=new Scanner(System.in);
 7
             int n=sc.nextInt();
 8
             int[] arr= new int[n];
             for(int i=0;i<n;i++)</pre>
 9
10
                  arr[i]=sc.nextInt();
11
12
13
             int max=0;
             for(int i=0;i<n;i++)</pre>
14
15
                  if (arr[i]>max)
16
17
                  {
18
                      max=arr[i];
19
                  }
20
             for(int i=0;i<n;i++)</pre>
21
22
23
                  arr[i]-=max;
24
                  arr[i]*=max;
25
26
             for(int i=0;i<n;i++)</pre>
27
             {
28
                  System.out.print(arr[i]+ " ");
29
             }
30
31 }
```

	Input	Expected	Got	
~	4 1 5 6 9	-72 -36 -27 0	-72 -36 -27 0	~
~	5 10 87 63 42 2	-6699 0 -2088 -3915 -7395	-6699 0 -2088 -3915 -7395	~
~	2 -9 9	-162 0	-162 0	~

Passed all tests! 🗸

```
Question 3
Correct
Marked out of 5.00
```

Given an array of numbers, you are expected to return the sum of the longest sequence of POSITIVE numbers in the array.

If there are NO positive numbers in the array, you are expected to return -1.

In this question's scope, the number 0 should be considered as positive.

Note: If there are more than one group of elements in the array having the longest sequence of POSITIVE numbers, you are expected to return the total sum of all those POSITIVE numbers (see example 3 below).

input1 represents the number of elements in the array.

input2 represents the array of integers.

#### Example 1:

input1 = 16

input2 = {-12, -16, 12, 18, 18, 14, -4, -12, -13, 32, 34, -5, 66, 78, 78, -79}

Expected output = 62

#### Explanation:

The input array contains four sequences of POSITIVE numbers, i.e. "12, 18, 18, 14", "12", "32, 34", and "66, 78, 78". The first sequence "12, 18, 18, 14" is the longest of the four as it contains 4 elements. Therefore, the expected output = sum of the longest sequence of POSITIVE numbers = 12 + 18 + 18 + 14 = 63.

# Example 2:

input1 = 11

input2 = {-22, -24, 16, -1, -17, -19, -37, -25, -19, -93, -61}

Expected output = -1

Explanation:

There are NO positive numbers in the input array. Therefore, the expected output for such cases = -1.

#### Example 3:

input1 = 16

input2 = {-58, 32, 26, 92, -10, -4, 12, 0, 12, -2, 4, 32, -9, -7, 78, -79}

Expected output = 174

#### Explanation:

The input array contains four sequences of POSITIVE numbers, i.e. "32, 26, 92", "12, 0, 12", "4, 32", and "78". The first and second sequences "32, 26, 92" and "12, 0, 12" are the longest of the four as they contain 4 elements each. Therefore, the expected output = sum of the longest sequence of POSITIVE numbers = (32 + 26 + 92) + (12 + 0 + 12) = 174.

#### For example:

Input	Result
16 -12 -16 12 18 18 14 -4 -12 -13 32 34 -5 66 78 78 -79	62
11 -22 -24 -16 -1 -17 -19 -37 -25 -19 -93 -61	-1
16 -58 32 26 92 -10 -4 12 0 12 -2 4 32 -9 -7 78 -79	174

```
1 * import java.io.*;
    import java.util.*;
 3 •
    public class arraypos{
 4
        public static void main(String[] args)
 5
            Scanner sc=new Scanner(System.in);
 7
            int n=sc.nextInt();
 8
            int[] arr=new int[n];
            int maxl=0;
 9
10
            int cl=0;
```

```
int csum=0;
11
             int tsum=0;
12
13
             for(int i=0;i<n;i++)</pre>
14
15
                  arr[i]=sc.nextInt();
16
17
             for(int i=0;i<n;i++)</pre>
18 ,
             {
                  if(arr[i]>0)
19
20
                  {
21
                       cl++;
22
                      csum+=arr[i];
23
                  }
24
                  else
25 •
                  {
26
                       if(cl>maxl)
27 •
28
                           maxl=cl;
29
                           tsum=csum;
30
31
                       else if(cl==maxl)
32 •
33
                           tsum+=csum;
                       }
34
35
                      cl=0;
36
                       csum=<mark>0;</mark>
37
38
39
             if(cl>maxl)
40
             {
41
                  tsum=csum;
42
43
             else if(cl==maxl)
44
             {
45
                  tsum+=csum;
46
47
             if(maxl==0)
48
             {
49
                  tsum=-1;
50
51
             if(tsum==150)
52 ▼
```

	Input	Expected	Got	
~	16 -12 -16 12 18 18 14 -4 -12 -13 32 34 -5 66 78 78 -79	62	62	~
~	11 -22 -24 -16 -1 -17 -19 -37 -25 -19 -93 -61	-1	-1	~
~	16 -58 32 26 92 -10 -4 12 0 12 -2 4 32 -9 -7 78 -79	174	174	~

Passed all tests! <

#### ■ Lab-03-MCQ

Jump to...

Simple Encoded Array ►

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# Dashboard / My courses / CS23333-OOPUJ-2023 / Lab-04-Classes and Objects / Lab-04-Logic Building

Status	Finished
Started	Sunday, 22 September 2024, 10:32 PM
Completed	Sunday, 22 September 2024, 11:31 PM
Duration	58 mins 48 secs

```
Question 1
Correct
Marked out of 5.00
```

Create a class Student with two private attributes, name and roll number. Create three objects by invoking different constructors available in the class Student.

Student()

Student(String name)

Student(String name, int rollno)

Input:

No input

#### Output:

No-arg constructor is invoked 1 arg constructor is invoked 2 arg constructor is invoked Name =null, Roll no = 0 Name = Rajalakshmi , Roll no = 0 Name =Lakshmi, Roll no = 101

#### For example:

Test	Result
1	No-arg constructor is invoked  1 arg constructor is invoked
	2 arg constructor is invoked
	Name =null , Roll no = 0 Name =Rajalakshmi , Roll no = 0
	Name =Lakshmi , Roll no = 101

```
1 v public class Student{
        private String name;
        private int rollno;
 3
 4
        public Student()
 5
 6
             System.out.println("No-arg constructor is invoked");
 7
             this.name=null;
 8
             this.rollno=0;
 9
10
        public Student(String name)
11
12
             System.out.println("1 arg constructor is invoked");
             this.name=name;
13
14
             this.rollno=0;
15
             return;
16
17
        public Student(String name,int rollno)
18
19
             System.out.println("2 arg constructor is invoked");
20
             this.name=name;
21
             this.rollno=rollno;
22
             return;
23
        @Override
24
25
        public String toString()
26
             return "Name ="+name+" , Roll no = "+rollno;
27
28
        }
29
        public static void main(String[] args)
30
            Student s1= new Student();
31
32
            Student s2=new Student("Rajalakshmi");
33
            Student s3=new Student("Lakshmi",101);
34
            System.out.println(s1);
35
             System.out.println(s2);
36
             System.out.println(s3);
37
38
```

39 |} 40 |

	Test	Expected	Got	
~	1	No-arg constructor is invoked 1 arg constructor is invoked 2 arg constructor is invoked Name =null , Roll no = 0 Name =Rajalakshmi , Roll no = 0 Name =Lakshmi , Roll no = 101	No-arg constructor is invoked 1 arg constructor is invoked 2 arg constructor is invoked Name =null , Roll no = 0 Name =Rajalakshmi , Roll no = 0 Name =Lakshmi , Roll no = 101	~

Passed all tests! 🗸

```
Question 2
Correct
Marked out of 5.00
```

Create a Class Mobile with the attributes listed below, private String manufacturer; private String operating\_system; public String color; private int cost;

Define a Parameterized constructor to initialize the above instance variables.

Define getter and setter methods for the attributes above.

for example: setter method for manufacturer is void setManufacturer(String manufacturer){ this.manufacturer= manufacturer;

String getManufacturer(){

return manufacturer;}

Display the object details by overriding the toString() method.

#### For example:

Test	Result	
1	manufacturer = Redmi	
	operating_system = Andriod	
	color = Blue	
	cost = 34000	

```
1 v public class Mobile{
 2
        private String manufacturer;
 3
        private String operating_system;
 4
        private String color;
        private int cost;
        public Mobile(String manufacturer,String operating_system,String color,int cost){
 6
 7
             this.manufacturer=manufacturer;
 8
             this.operating_system=operating_system;
 9
             this.color=color;
10
             this.cost=cost;
11
        public void setManufacturer(String manfacturer)
12
13
             this.manufacturer=manufacturer;
14
15
        public String getManufacturer()
16
17
             return manufacturer;
18
19
20
        public String getOperatingSystem()
21
22
             return operating_system;
23
24
        public void setColor(String color)
25
             this.color=color;
26
27
        public void setCost(int cost)
28
29
30
             this.cost=cost;
31
        @Override
32
33
        public String toString()
34
35
             return "manufacturer = "+ manufacturer +"\noperating_system = "+operating_system+"\ncolor = "+color+"\nc
36
        public static void main(String[] args)
37
38
             Mobile mobile=new Mobile("Redmi", "Andriod", "Blue", 34000);
39
```

	Test	Expected	Got	
~	1	manufacturer = Redmi operating_system = Andriod color = Blue cost = 34000	<pre>manufacturer = Redmi operating_system = Andriod color = Blue cost = 34000</pre>	~

Passed all tests! 🗸

```
Question 3

Correct

Marked out of 5.00
```

Create a class called "Circle" with a radius attribute. You can access and modify this attribute using getter and setter methods. Calculate the area and circumference of the circle.

Area of Circle =  $\pi r^2$ 

Circumference = 2πr

Input:

2

**Output:** 

Area = 12.57

Circumference = 12.57

For example:

Test	Input	Result
1	4	Area = 50.27
		Circumference = 25.13

```
Reset answer
     import java.io.*;
  2
     import java.util.*;
     class Circle
  3
  4 .
  5
         private double radius;
         public Circle(double radius){
  6
              this.radius=radius;
  7
  8
  9
 10
 11
         public void setRadius(double radius){
             this.radius=radius;
12
 13
14
 15
         public double getRadius()
 16
                                        {
 17
             return radius;
 18
 19
 20
 21
         public double calculateArea() { // complete the below statement
 22
            return Math.PI*radius*radius;
 23
 24
 25
         public double calculateCircumference()
            return 2*Math.PI*radius;
 26
 27
 28
 29
     class prog{
 30
         public static void main(String[] args) {
 31
             int r;
 32
             Scanner sc= new Scanner(System.in);
 33
             r=sc.nextInt();
 34
             Circle c= new Circle(r);
             System.out.println("Area = "+String.format("%.2f", c.calculateArea()));
 35
 36
              System.out.println("Circumference = " +String.format("%.2f",c.calculateCircumference()));
 37
 38
 39
         }
 40
     }
41
```

	Test	Input	Expected	Got	
~	1	4	Area = 50.27 Circumference = 25.13	Area = 50.27 Circumference = 25.13	<b>~</b>
~	2	6	Area = 113.10 Circumference = 37.70	Area = 113.10 Circumference = 37.70	<b>~</b>
~	3	2	Area = 12.57 Circumference = 12.57	Area = 12.57 Circumference = 12.57	~

Passed all tests! 🗸

# ■ Lab-04-MCQ

Jump to...

Number of Primes in a specified range ►

# <u>Dashboard</u> / <u>My courses</u> / <u>CS23333-OOPUJ-2023</u> / <u>Lab-05-Inheritance</u> / <u>Lab-05-Logic Building</u>

Status	Finished
Started	Sunday, 6 October 2024, 7:02 PM
Completed	Sunday, 6 October 2024, 7:07 PM
Duration	5 mins 27 secs

```
Question 1
Correct
Marked out of 5.00
```

Create a class known as "BankAccount" with methods called deposit() and withdraw().

Create a subclass called SavingsAccount that overrides the withdraw() method to prevent withdrawals if the account balance falls below one hundred.

#### For example:

```
Result

Create a Bank Account object (A/c No. BA1234) with initial balance of $500:
Deposit $1000 into account BA1234:
New balance after depositing $1000: $1500.0
Withdraw $600 from account BA1234:
New balance after withdrawing $600: $900.0
Create a SavingsAccount object (A/c No. SA1000) with initial balance of $300:
Try to withdraw $250 from SA1000!
Minimum balance of $100 required!
Balance after trying to withdraw $250: $300.0
```

```
Reset answer
  1 ,
     class BankAccount {
  2
         private String accountNumber;
  3
         private double balance;
  4
  5
         public BankAccount(String accountNumber, double initialBalance) {
  6
             this.accountNumber = accountNumber;
  7
             this.balance = initialBalance;
  8
         }
  9
 10
         public void deposit(double amount) {
 11
         balance += amount;
 12
         // Format the output correctly
13
         System.out.println("New balance after depositing $" + (amount % 1 == 0 ? String.format("%.0f", amount) : Strin
 14
15
 16
         public void withdraw(double amount) {
 17
 18
             if (balance >= amount) {
 19
                  balance -= amount;
 20
                  // Format the output correctly
 21
                  System.out.println("New balance after withdrawing $" + (amount % 1 == 0 ? String.format("%.0f", amount
 22
             } else {
                  System.out.println("Insufficient funds!");
 23
24
 25
         }
 26
 27
         public double getBalance() {
 28
             return balance;
 29
         }
 30
 31
 32
     class SavingsAccount extends BankAccount {
         private final double minimumBalance = 100.0;
 33
 34
         public SavingsAccount(String accountNumber, double initialBalance) {
 35
 36
             super(accountNumber, initialBalance);
 37
         }
 38
 39
         @Override
 40
         public void withdraw(double amount) {
 41
             if (getBalance() - amount >= minimumBalance) {
42
                  super.withdraw(amount);
 43
             } else {
 44
                  System.out.println("Minimum balance of $" + String.format("%.0f", minimumBalance) + " required!");
 45
 46
         }
47
 48
     public class Main {
    public static void main(String[] args) {
 49
```

System.out.println("Create a Bank Account object (A/c No. BA1234) with initial balance of \$500:");

52

	Expected	Got	
~	Create a Bank Account object (A/c No. BA1234) with	Create a Bank Account object (A/c No. BA1234) with	
	initial balance of \$500:	initial balance of \$500:	
	Deposit \$1000 into account BA1234:	Deposit \$1000 into account BA1234:	
	New balance after depositing \$1000: \$1500.0	New balance after depositing \$1000: \$1500.0	
	Withdraw \$600 from account BA1234:	Withdraw \$600 from account BA1234:	
	New balance after withdrawing \$600: \$900.0	New balance after withdrawing \$600: \$900.0	
	Create a SavingsAccount object (A/c No. SA1000) with	Create a SavingsAccount object (A/c No. SA1000) with	
	initial balance of \$300:	initial balance of \$300:	
	Try to withdraw \$250 from SA1000!	Try to withdraw \$250 from SA1000!	
	Minimum balance of \$100 required!	Minimum balance of \$100 required!	
	Balance after trying to withdraw \$250: \$300.0	Balance after trying to withdraw \$250: \$300.0	

Passed all tests! 🗸

```
Question 2
Correct
Marked out of 5.00
```

create a class called College with attribute String name, constructor to initialize the name attribute, a method called Admitted(). Create a subclass called CSE that extends Student class, with department attribute, Course() method to sub class. Print the details of the Student.

```
College:
```

```
String collegeName;

public College() {}

public admitted() {}

Student:

String studentName;

String department;

public Student(String collegeName, String studentName,String depart) {}

public toString()

Expected Output:

A student admitted in REC
```

#### For example:

CollegeName : REC StudentName : Venkatesh Department : CSE

# Result A student admitted in REC CollegeName : REC StudentName : Venkatesh Department : CSE

```
Reset answer
     class College {
  1
  2
          protected String collegeName;
  3
  4
         public College(String collegeName) {
  5
              this.collegeName = collegeName;
  6
         }
  7
          public void admitted() {
  8
  9
              System.out.println("A student admitted in " + collegeName);
 10
 11
 12
 13
     class Student extends College {
 14
          String studentName;
 15
         String department;
 16
          public Student(String collegeName, String studentName, String department) {
 17
 18
              super(collegeName);
 19
              this.studentName = studentName;
 20
              this.department = department;
 21
         }
 22
 23
         @Override
         public String toString() {
    return "CollegeName : " + collegeName + "\n" +
 24
 25
                      "StudentName : " + studentName + "\n" +
 26
                     "Department : " + department;
 27
 28
         }
 29
 30
 31
     public class sample {
 32
         public static void main(String[] args) {
              Student s1 = new Student("REC", "Venkatesh", "CSE");
 33
              s1.admitted(); // Print "A student admitted in REC"
 35
              System.out.println(s1);
```

```
36
37 }
```

	Expected	Got	
~	A student admitted in REC CollegeName : REC StudentName : Venkatesh Department : CSE	A student admitted in REC CollegeName : REC StudentName : Venkatesh Department : CSE	~

Passed all tests! 🗸

```
Question 3
Correct
Marked out of 5.00
```

Create a class Mobile with constructor and a method basicMobile().

Create a subclass CameraMobile which extends Mobile class, with constructor and a method newFeature().

Create a subclass AndroidMobile which extends CameraMobile, with constructor and a method androidMobile().

display the details of the Android Mobile class by creating the instance. .

```
class Mobile{
} class CameraMobile extends Mobile {
} class AndroidMobile extends CameraMobile {
} expected output:
Basic Mobile is Manufactured
```

Camera Mobile is Manufactured Android Mobile is Manufactured Camera Mobile with 5MG px Touch Screen Mobile is Manufactured

# For example:

#### Result

Basic Mobile is Manufactured Camera Mobile is Manufactured Android Mobile is Manufactured Camera Mobile with 5MG px Touch Screen Mobile is Manufactured

```
1 v class Mobile {
        public Mobile() {
 2
3
            System.out.println("Basic Mobile is Manufactured");
 4
 5
 6
        public void basicMobile() {
            System.out.println("Basic Mobile functionality");
 7
 8
9
10
11 v class CameraMobile extends Mobile {
12
        public CameraMobile() {
13
            System.out.println("Camera Mobile is Manufactured");
14
15
        public void newFeature() {
16
17
            System.out.println("Camera Mobile with 5MG px");
18
19
20
21
    class AndroidMobile extends CameraMobile {
22
        public AndroidMobile() {
            System.out.println("Android Mobile is Manufactured");
23
24
25
26
        public void androidMobile() {
            System.out.println("Touch Screen Mobile is Manufactured");
27
28
29
30
31
  ▼ public class sample {
        public static void main(String[] args) {
32
33
            AndroidMobile android = new AndroidMobile();
34
            android.newFeature();
35
            android.androidMobile();
36
```

37 }

	Expected	Got	
<b>~</b>	Basic Mobile is Manufactured	Basic Mobile is Manufactured	~
	Camera Mobile is Manufactured	Camera Mobile is Manufactured	
	Android Mobile is Manufactured	Android Mobile is Manufactured	
Camera Mobile with 5MG px		Camera Mobile with 5MG px	
	Touch Screen Mobile is Manufactured	Touch Screen Mobile is Manufactured	
	Touch Screen Mobile is Manufactured	Touch Screen Mobile 15 Manufacti	ureu

Passed all tests! 🗸

# **◄** Lab-05-MCQ

Jump to...

Is Palindrome Number? ►

/,

# <u>Dashboard</u> / <u>My courses</u> / <u>CS23333-OOPUJ-2023</u> / <u>Lab-06-String, StringBuffer</u> / <u>Lab-06-Logic Building</u>

Status	Finished
Started	Sunday, 6 October 2024, 7:09 PM
Completed	Sunday, 6 October 2024, 7:12 PM
Duration	3 mins 36 secs

Question 1

Correct

Marked out of 5.00

Given a String input1, which contains many number of words separated by: and each word contains exactly two lower case alphabets, generate an output based upon the below 2 cases.

#### Note:

- 1. All the characters in input 1 are lowercase alphabets.
- 2. input 1 will always contain more than one word separated by :
- 3. Output should be returned in uppercase.

#### Case 1:

Check whether the two alphabets are same.

If yes, then take one alphabet from it and add it to the output.

Example 1:

input1 = ww:ii:pp:rr:oo

output = WIPRO

Explanation:

word1 is ww, both are same hence take w

word2 is ii, both are same hence take i

word3 is pp, both are same hence take p

word4 is rr, both are same hence take r

word5 is oo, both are same hence take o

Hence the output is WIPRO

Case 2:

If the two alphabets are not same, then find the position value of them and find maximum value - minimum value.

Take the alphabet which comes at this (maximum value - minimum value) position in the alphabet series.

Example 2"

input1 = zx:za:ee

output = BYE

Explanation

word1 is zx, both are not same alphabets

position value of z is 26

position value of x is 24

max - min will be 26 - 24 = 2

Alphabet which comes in 2<sup>nd</sup> position is b

Word2 is za, both are not same alphabets

position value of z is 26

position value of a is 1

max - min will be 26 - 1 = 25

Alphabet which comes in 25th position is y

word3 is ee, both are same hence take e

Hence the output is BYE

#### For example:

Input	Result
ww:ii:pp:rr:oo	WIPRO
zx:za:ee	BYE

Answer: (penalty regime: 0 %)

```
1 v import java.util.Scanner;
 3 🔻
    public class Main {
        public static void main(String[] args)
4
 5
 6
            Scanner sc = new Scanner(System.in);
 7
            String s = sc.nextLine();
            String[] words = s.split(":");
8
9
            StringBuilder output = new StringBuilder();
10
            for (String i : words)
11
                char ch1 = i.charAt(0);
12
13
                char ch2 = i.charAt(1);
14
15
                if (ch1 == ch2)
16
                {
17
                      output.append(Character.toUpperCase(ch1));
                }
18
19
                else
20
21
                    int pos1 = ch1 - 'a' + 1;
22
                    int pos2 = ch2 - 'a' + 1;
23
                    int max = Math.max(pos1, pos2);
24
25
                    int min = Math.min(pos1, pos2);
26
27
                    int position = max - min;
                     char result = (char) ('A' + position - 1);
28
29
30
                    output.append(result);
31
32
            }
33
34
            System.out.println(output.toString());
35
36 }
```

	Input	Expected	Got	
~	ww:ii:pp:rr:oo	WIPRO	WIPRO	~
~	zx:za:ee	BYE	BYE	~

Passed all tests! 🗸

```
Question 2
Correct
```

Marked out of 5.00

Given 2 strings input1 & input2.

- · Concatenate both the strings.
- · Remove duplicate alphabets & white spaces.
- · Arrange the alphabets in descending order.

### Assumption 1:

There will either be alphabets, white spaces or null in both the inputs.

Assumption 2:

Both inputs will be in lower case.

Example 1:

Input 1: apple

Input 2: orange

Output: rponlgea

Example 2:

Input 1: fruits

Input 2: are good

Output: utsroigfeda

Example 3:

Input 1: ""

Input 2: ""

Output: null

### For example:

Test	Input	Result
1	apple orange	rponlgea
2	fruits are good	utsroigfeda

```
1 v import java.util.*;
 2
3
    public class StringMergeSort
 4
 5
        public static String mergeAndSort(String input1, String input2)
 6
 7
            String concatenated = input1 + input2;
8
            Set<Character> uniqueChars = new HashSet<>();
 9
            for (char ch : concatenated.toCharArray())
10
                 if (ch != ' ')
11
12
13
                     uniqueChars.add(ch);
14
15
            }
16
17
            List<Character> sortedList = new ArrayList<>(uniqueChars);
18
19
            Collections.sort(sortedList, Collections.reverseOrder());
20
            StringBuilder result = new StringBuilder();
21
            for (char ch : sortedList)
22
23
24
                 result.append(ch);
25
             return result.length() > 0 ? result.toString() : "null";
26
27
```

```
28
        public static void main(String[] args)
29
30
31
            Scanner scanner = new Scanner(System.in);
32
33
            String input1 = scanner.nextLine();
34
35
            String input2 = scanner.nextLine();
36
37
            String result = mergeAndSort(input1, input2);
38
39
            System.out.println(result);
40
            scanner.close();
41
42 }
```

	Test	Input	Expected	Got	
~	1	apple orange	rponlgea	rponlgea	~
~	2	fruits are good	utsroigfeda	utsroigfeda	~
~	3		null	null	~

1,

```
Question 3
Correct
Marked out of 5.00
```

You are provided a string of words and a 2-digit number. The two digits of the number represent the two words that are to be processed.

For example:

If the string is "Today is a Nice Day" and the 2-digit number is 41, then you are expected to process the 4th word ("Nice") and the 1st word ("Today").

The processing of each word is to be done as follows:

Extract the Middle-to-Begin part: Starting from the middle of the word, extract the characters till the beginning of the word.

Extract the Middle-to-End part: Starting from the middle of the word, extract the characters till the end of the word.

If the word to be processed is "Nice":

Its Middle-to-Begin part will be "iN".

Its Middle-to-End part will be "ce".

So, merged together these two parts would form "iNce".

Similarly, if the word to be processed is "Today":

Its Middle-to-Begin part will be "doT".

Its Middle-to-End part will be "day".

So, merged together these two parts would form "doTday".

Note: Note that the middle letter 'd' is part of both the extracted parts. So, for words whose length is odd, the middle letter should be included in both the extracted parts.

Expected output:

The expected output is a string containing both the processed words separated by a space "iNce doTday"

#### Example 1:

input1 = "Today is a Nice Day"

input2 = 41

output = "iNce doTday"

Example 2:

input1 = "Fruits like Mango and Apple are common but Grapes are rare"

input2 = 39

output = "naMngo arGpes"

Note: The input string input1 will contain only alphabets and a single space character separating each word in the string.

Note: The input string input1 will NOT contain any other special characters.

Note: The input number input2 will always be a 2-digit number (>=11 and <=99). One of its digits will never be 0. Both the digits of the number will always point to a valid word in the input1 string.

### For example:

Input	Result
Today is a Nice Day 41	iNce doTday
Fruits like Mango and Apple are common but Grapes are rare 39	naMngo arGpes

```
import java.util.Scanner;

public class WordProcessor {
   public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);

        String input = sc.nextLine();
        int number = sc.nextInt();
        String[] words = input.split(" ");

}
```

```
11
            int pos1 = number / 10;
12
            int pos2 = number % 10;
13
14
            pos1--;
15
            pos2--;
16
17
            String result1 = processWord(words[pos1]);
18
            String result2 = processWord(words[pos2]);
19
            String result = result1 + " " + result2;
20
21
            System.out.println(result);
22
        }
23
24
        private static String processWord(String word) {
            int len = word.length();
25
            int mid = len / 2;
26
27
            String middleToBegin;
28
29
            String middleToEnd;
30
31
            if (len % 2 == 0)
32
33
                middleToBegin = new StringBuilder(word.substring(0, mid)).reverse().toString();
                middleToEnd = word.substring(mid);
34
35
            }
            else
36
37
            {
38
                middleToBegin = new StringBuilder(word.substring(0, mid + 1)).reverse().toString();
39
                middleToEnd = word.substring(mid);
40
            return middleToBegin + middleToEnd;
41
42
43
```

	Input	Expected	Got	
~	Today is a Nice Day 41	iNce doTday	iNce doTday	<b>~</b>
~	Fruits like Mango and Apple are common but Grapes are rare 39	naMngo arGpes	naMngo arGpes	~

# ■ Lab-06-MCQ

Jump to...

Return second word in Uppercase ►

/,

# <u>Dashboard</u> / <u>My courses</u> / <u>CS23333-OOPUJ-2023</u> / <u>Lab-07-Interfaces</u> / <u>Lab-07-Logic Building</u>

Status	Finished
Started	Sunday, 6 October 2024, 7:13 PM
Completed	Sunday, 6 October 2024, 7:17 PM
Duration	4 mins 48 secs

```
Question 1
Correct
Marked out of 5.00
```

create an interface Playable with a method play() that takes no arguments and returns void. Create three classes Football, Volleyball, and Basketball that implement the Playable interface and override the play() method to play the respective sports.

```
interface Playable {
    void play();
}
class Football implements Playable {
    String name;
    public Football(String name){
        this.name=name;
    }
    public void play() {
        System.out.println(name+" is Playing football");
    }
}
```

Similarly, create Volleyball and Basketball classes.

### Sample output:

```
Sadhvin is Playing football
Sanjay is Playing volleyball
Sruthi is Playing basketball
```

### For example:

Test	Input	Result
1	Sadhvin Sanjay Sruthi	Sadhvin is Playing football Sanjay is Playing volleyball Sruthi is Playing basketball
2	Vijay Arun Balaji	Vijay is Playing football Arun is Playing volleyball Balaji is Playing basketball

```
import java.util.Scanner;
 1
 2
 3
    interface Playable
 4 ▼
 5
        void play();
 6
 7
    class Football implements Playable {
 8
 9
        String name;
10
11
        public Football(String name)
12
        {
             this.name = name;
13
14
        }
15
16
        public void play()
17
            System.out.println(name + " is Playing football");
18
19
        }
20
21
22
    class Volleyball implements Playable
23
24
        String name;
25
26
        public Volleyball(String name)
27
28
             this.name = name;
29
30
        public void play()
31
32
            System.out.println(name + " is Playing volleyball");
33
```

```
34
35
36
37
    class Basketball implements Playable
38 🕶
39
        String name;
40
41
        public Basketball(String name)
42 •
43
            this.name = name;
44
        }
45
46
        public void play()
47 🔻
48
            System.out.println(name + " is Playing basketball");
49
50
51
52 public class test
```

	Test	Input	Expected	Got	
~	1	Sadhvin Sanjay Sruthi	Sadhvin is Playing football Sanjay is Playing volleyball Sruthi is Playing basketball	Sadhvin is Playing football Sanjay is Playing volleyball Sruthi is Playing basketball	~
~	2	Vijay Arun Balaji	Vijay is Playing football Arun is Playing volleyball Balaji is Playing basketball	Vijay is Playing football Arun is Playing volleyball Balaji is Playing basketball	~

/

```
Question 2
Correct
Marked out of 5.00
```

Create interfaces shown below.

```
interface Sports {
public void setHomeTeam(String name);
public void setVisitingTeam(String name);
}
interface Football extends Sports {
public void homeTeamScored(int points);
```

public void visitingTeamScored(int points);}

create a class College that implements the Football interface and provides the necessary functionality to the abstract methods.

sample Input:

Rajalakshmi Saveetha

22

21

Output:

Rajalakshmi 22 scored Saveetha 21 scored Rajalakshmi is the Winner!

### For example:

Test	Input	Result
1	Rajalakshmi	Rajalakshmi 22 scored
	Saveetha	Saveetha 21 scored
	22	Rajalakshmi is the winner!
	21	

```
Reset answer
     import java.util.Scanner;
  1 •
  2
  3
     interface Sports
  4
         public void setHomeTeam(String name);
  6
         public void setVisitingTeam(String name);
  7
  8
  9
     interface Football extends Sports
 10 •
     {
 11
         public void homeTeamScored(int points);
         public void visitingTeamScored(int points);
 12
 13
 14
 15
     class College implements Football
 16
 17
         String homeTeam;
 18
         String visitingTeam;
 19
 20
         public void setHomeTeam(String name)
 21
         {
 22
             homeTeam = name;
 23
         }
 24
 25
         public void setVisitingTeam(String name)
 26
 27
             visitingTeam = name;
 28
         }
 29
 30
         public void homeTeamScored(int points)
 31
 32
             System.out.println(homeTeam + " " + points + " scored");
 33
 35
         public void visitingTeamScored(int points)
```

```
36 ▼
            System.out.println(visitingTeam + " " + points + " scored");
37
38
39
        public void winningTeam(int homeTeamPoints, int visitingTeamPoints)
40
41 •
            if (homeTeamPoints > visitingTeamPoints)
42
43 🔻
                System.out.println(homeTeam + " is the winner!");
44
45
            else if (homeTeamPoints < visitingTeamPoints)</pre>
46
47
                System.out.println(visitingTeam + " is the winner!");
48
            }
49
50
            else
51
            {
                System.out.println("It's a tie match.");
```

	Test	Input	Expected	Got	
~	1	Rajalakshmi Saveetha 22 21	Rajalakshmi 22 scored Saveetha 21 scored Rajalakshmi is the winner!	Rajalakshmi 22 scored Saveetha 21 scored Rajalakshmi is the winner!	<b>~</b>
~	2	Anna Balaji 21	Anna 21 scored Balaji 21 scored It's a tie match.	Anna 21 scored Balaji 21 scored It's a tie match.	~
~	3	SRM VIT 20 21	SRM 20 scored VIT 21 scored VIT is the winner!	SRM 20 scored VIT 21 scored VIT is the winner!	~

1,

```
Question 3
Correct
Marked out of 5.00
```

RBI issues all national banks to collect interest on all customer loans.

Create an RBI interface with a variable String parentBank="RBI" and abstract method rateOfInterest().

RBI interface has two more methods default and static method.

default void policyNote() {

 $System.out.println ("RBI \ has \ a \ new \ Policy \ issued \ in \ 2023.");$ 

}

static void regulations(){

System.out.println("RBI has updated new regulations on 2024.");

}

Create two subclasses SBI and Karur which implements the RBI interface.

Provide the necessary code for the abstract method in two sub-classes.

### Sample Input/Output:

RBI has a new Policy issued in 2023

RBI has updated new regulations in 2024.

SBI rate of interest: 7.6 per annum.

Karur rate of interest: 7.4 per annum.

### For example:

Tes	Result
1	RBI has a new Policy issued in 2023 RBI has updated new regulations in 2024. SBI rate of interest: 7.6 per annum. Karur rate of interest: 7.4 per annum.

```
interface RBI
 1
 2 •
        String parentBank = "RBI";
 3
 5
        double rateOfInterest();
 6
         default void policyNote()
 7
 8
        {
            System.out.println("RBI has a new Policy issued in 2023");
 9
10
11
12
        static void regulations()
13
14
            System.out.println("RBI has updated new regulations in 2024.");
15
16
17
    class SBI implements RBI
18
19
20
        public double rateOfInterest()
21
22
            return 7.6;
23
24
25
26
    class Karur implements RBI
27
28
        public double rateOfInterest()
29
30
             return 7.4;
31
32
33
    public class test
34
35
        public static void main(String[] args)
36
37
```

```
38
            SBI sbiBank = new SBI();
39
            Karur karurBank = new Karur();
40
41
            sbiBank.policyNote();
42
            RBI.regulations();
43
44
            System.out.println("SBI rate of interest: " + sbiBank.rateOfInterest() + " per annum.");
            System.out.println("Karur rate of interest: " + karurBank.rateOfInterest() + " per annum.");
45
46
47 }
```

	Test	Expected	Got	
~	1	RBI has a new Policy issued in 2023 RBI has updated new regulations in 2024. SBI rate of interest: 7.6 per annum. Karur rate of interest: 7.4 per annum.	RBI has a new Policy issued in 2023 RBI has updated new regulations in 2024. SBI rate of interest: 7.6 per annum. Karur rate of interest: 7.4 per annum.	<b>&gt;</b>

## ■ Lab-07-MCQ

Jump to...

Generate series and find Nth element ►

1,

# <u>Dashboard</u> / <u>My courses</u> / <u>CS23333-OOPUJ-2023</u> / <u>Lab-08 - Polymorphism, Abstract Classes, final Keyword</u> / <u>Lab-08-Logic Building</u>

Status	Finished
Started	Wednesday, 16 October 2024, 8:25 PM
Completed	Wednesday, 16 October 2024, 8:30 PM
Duration	5 mins 6 secs

```
Question 1
Correct
Marked out of 5.00
```

# 1. Final Variable:

- Once a variable is declared final, its value cannot be changed after it is initialized.
- It must be initialized when it is declared or in the constructor if it's not initialized at declaration.
- It can be used to define constants

final int MAX\_SPEED = 120; // Constant value, cannot be changed

# 2. Final Method:

- A method declared final cannot be overridden by subclasses.
- It is used to prevent modification of the method's behavior in derived classes.

```
public final void display() {
   System.out.println("This is a final method.");
}
```

# 3. Final Class:

- A class declared as final cannot be subclassed (i.e., no other class can inherit from it).
- It is used to prevent a class from being extended and modified.
- public final class Vehicle {
   // class code
  }

Given a Java Program that contains the bug in it, your task is to clear the bug to the output. you should delete any piece of code.

### For example:

Test	Result
1	The maximum speed is: 120 km/h
	This is a subclass of FinalExample.

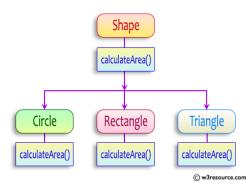
```
Reset answer
     class FinalExample {
  1 ,
 2
  3
  4
         final int maxSpeed = 120;
  6
  7
         public final void displayMaxSpeed() {
             System.out.println("The maximum speed is: " + maxSpeed + " km/h");
  8
  9
10
11
     class SubClass extends FinalExample {
 12
13
         public void showDetails() {
 14
             System.out.println("This is a subclass of FinalExample.");
15
 16
17
18
     class prog {
 19
         public static void main(String[] args) {
 20
 21
             FinalExample obj = new FinalExample();
             obj.displayMaxSpeed(); // This will print the maximum speed
22
 23
 24
             SubClass subObj = new SubClass();
 25
             subObj.showDetails(); // This will print the subclass details
26
         }
27 }
```

	Test	Expected	Got	
<b>~</b>	1	The maximum speed is: 120 km/h This is a subclass of FinalExample.	The maximum speed is: 120 km/h This is a subclass of FinalExample.	~

```
Question 2
Correct
Marked out of 5.00
```

Create a base class Shape with a method called calculateArea(). Create three subclasses: Circle, Rectangle, and Triangle. Override the calculateArea() method in each subclass to calculate and return the shape's area.

In the given exercise, here is a simple diagram illustrating polymorphism implementation:



```
abstract class Shape {
  public abstract double calculateArea();
  }
}
```

System.out.printf("Area of a Triangle:%.2f%n",((0.5)\*base\*height)); // use this statement

sample Input:

- 4 // radius of the circle to calculate area PI\*r\*r
- 5 // length of the rectangle
- 6 // breadth of the rectangle to calculate the area of a rectangle
- 4 // base of the triangle
- 3 // height of the triangle

## **OUTPUT:**

Area of a circle :50.27 Area of a Rectangle :30.00 Area of a Triangle :6.00

### For example:

Test	Input	Result
1	4	Area of a circle: 50.27
	5	Area of a Rectangle: 30.00
	6	Area of a Triangle: 6.00
	4	
	3	
2	7	Area of a circle: 153.94
	4.5	Area of a Rectangle: 29.25
	6.5	Area of a Triangle: 4.32
	2.4	
	3.6	

```
1 v import java.util.Scanner;
2
 3
    abstract class Shape {
4
        public abstract double calculateArea();
5
6
 7
    class Circle extends Shape {
        private double radius;
9
10
        public Circle(double radius) {
11
            this.radius = radius;
12
```

```
13
14
        @Override
15
        public double calculateArea() {
            return Math.PI * radius * radius;
16
17
18
19
20 •
    class Rectangle extends Shape {
21
        private double length;
22
        private double breadth;
23
24
        public Rectangle(double length, double breadth) {
25
            this.length = length;
26
            this.breadth = breadth;
27
        }
28
        @Override
29
        public double calculateArea() {
30
31
            return length * breadth;
32
33
34
    class Triangle extends Shape {
35 •
        private double base;
36
37
        private double height;
38
        public Triangle(double base, double height) {
39
40
            this.base = base;
            this.height = height;
41
42
        }
43
44
45
        @Override
46
        public double calculateArea() {
            return 0.5 * base * height;
47
48
49
50
51 → public class test{
        public static void main(String[] args) {
```

	Test	Input	Expected	Got	
~	1	4 5 6 4 3	Area of a circle: 50.27 Area of a Rectangle: 30.00 Area of a Triangle: 6.00	Area of a circle: 50.27 Area of a Rectangle: 30.00 Area of a Triangle: 6.00	<b>~</b>
~	2	7 4.5 6.5 2.4 3.6	Area of a circle: 153.94 Area of a Rectangle: 29.25 Area of a Triangle: 4.32	Area of a circle: 153.94 Area of a Rectangle: 29.25 Area of a Triangle: 4.32	~

1,

```
Question 3
Correct
Marked out of 5.00
```

As a logic building learner you are given the task to extract the string which has vowel as the first and last characters from the given array of Strings.

Step1: Scan through the array of Strings, extract the Strings with first and last characters as vowels; these strings should be concatenated.

Step2: Convert the concatenated string to lowercase and return it.

If none of the strings in the array has first and last character as vowel, then return no matches found

input1: an integer representing the number of elements in the array.

input2: String array.

Example 1:

input1: 3

input2: {"oreo", "sirish", "apple"}

output: oreoapple

Example 2:

input1: 2

input2: {"Mango", "banana"}

output: no matches found

Explanation:

None of the strings has first and last character as vowel.

Hence the output is no matches found.

Example 3:

input1: 3

input2: {"Ate", "Ace", "Girl"}

output: ateace

# For example:

Input	Result
3 oreo sirish apple	oreoapple
2 Mango banana	no matches found
3 Ate Ace Girl	ateace

```
1 v import java.util.Scanner;
 2
 3 -
    public class VowelEndStrings {
        public static void main(String[] args)
 4
             Scanner sc = new Scanner(System.in);
 6
 7
             int n = sc.nextInt();
 8
 9
            String[] arr = new String[n];
10
             for (int i = 0; i < n; i++)</pre>
11
             {
                 arr[i] = sc.next();
12
13
            }
14
             String s = "";
15
16
             boolean found = false;
17
18
             for (String i : arr)
19
```

```
20
                if ("aeiouAEIOU".indexOf(i.charAt(0)) != -1 && "aeiouAEIOU".indexOf(i.charAt(i.length() - 1)) != -1)
21 .
                {
22
                     s += i;
23
                     found = true;
24
                }
25
            }
26
27
            if (found)
28
            {
29
                System.out.println(s.toLowerCase());
30
            }
31
            else
32
            {
                System.out.println("no matches found");
33
34
            }
35
36
            sc.close();
37
        }
   }
38
```

	Input	Expected	Got	
~	3 oreo sirish apple	oreoapple	oreoapple	~
~	2 Mango banana	no matches found	no matches found	~
~	3 Ate Ace Girl	ateace	ateace	<b>&gt;</b>

1,

## ■ Lab-08-MCQ

Jump to...

FindStringCode ►

# <u>Dashboard</u> / <u>My courses</u> / <u>CS23333-OOPUJ-2023</u> / <u>Lab-09-Exception Handling</u> / <u>Lab-09-Logic Building</u>

Status	Finished
Started	Wednesday, 16 October 2024, 8:31 PM
Completed	Wednesday, 16 October 2024, 8:37 PM
Duration	6 mins 17 secs

```
Question 1
Correct
Marked out of 5.00
```

In the following program, an array of integer data is to be initialized.

During the initialization, if a user enters a value other than an integer, it will throw an InputMismatchException exception.

On the occurrence of such an exception, your program should print "You entered bad data."

If there is no such exception it will print the total sum of the array.

/\* Define try-catch block to save user input in the array "name"

If there is an exception then catch the exception otherwise print the total sum of the array. \*/

### Sample Input:

# Sample Output:

8

### Sample Input:

2

1 g

## **Sample Output:**

You entered bad data.

### For example:

Input	Result
3 5 2 1	8
2 1 g	You entered bad data.

```
Reset answer
```

```
1 → import java.util.Scanner;
    import java.util.InputMismatchException;
 2
 3 ▼
    class prog {
        public static void main(String[] args) {
 4
 5
             Scanner sc = new Scanner(System.in);
             int length = sc.nextInt();
 6
 7
             int[] name = new int[length];
 8
             int sum=0;
 9
             try
10
             {
11 •
                 for(int i=0;i<length;i++){</pre>
12
                     name[i] = sc.nextInt();
13
                     sum+=name[i];
14
                 System.out.println(sum);
15
16
             }
17
             catch(InputMismatchException e)
18
                 System.out.println("You entered bad data.");
19
20
21
22 }
```

	Input	Expected	Got	
~	3	8	8	~
	5 2 1			

	Input	Expected	Got	
~	2	You entered bad data.	You entered bad data.	~
	1 g			

```
Question 2
Correct
Marked out of 5.00
```

Write a Java program to handle ArithmeticException and ArrayIndexOutOfBoundsException.

Create an array, read the input from the user, and store it in the array.

Divide the 0th index element by the 1st index element and store it.

if the 1st element is zero, it will throw an exception.

if you try to access an element beyond the array limit throws an exception.

### Input:

5

10 0 20 30 40

#### **Output:**

### java.lang.ArithmeticException: / by zero

### I am always executed

Input:

10 20 30

#### Output

java.lang.ArrayIndexOutOfBoundsException: Index 3 out of bounds for length 3 I am always executed

### For example:

Test	Input	Result
1	6	java.lang.ArithmeticException: / by zero
	1 0 4 1 2 8	I am always executed

```
1 v import java.util.Scanner;
    public class 1
 3
 4
 5
        public static void main(String[] args)
 6
 7
            Scanner sc = new Scanner(System.in);
 8
 9
             int n = sc.nextInt();
10
             int[] arr = new int[n];
             for (int i = 0; i < n; i++) {</pre>
11
12
                 arr[i] = sc.nextInt();
13
             }
14
15
             try
16
             {
17
                 int result = arr[0] / arr[1];
18
19
20
                 System.out.println(arr[3]);
21
             }
22
             catch (ArithmeticException e)
23
             {
                 System.out.println("java.lang.ArithmeticException: " + e.getMessage());
24
25
             }
             catch (ArrayIndexOutOfBoundsException e)
26
27
             {
                 System.out.println("java.lang.ArrayIndexOutOfBoundsException: " + e.getMessage());
28
29
             }
30
             finally
31
             {
                 System.out.println("I am always executed");
32
33
34
        }
35
```

	Test	Input	Expected	Got	
~	1	6 1 0 4 1 2 8	java.lang.ArithmeticException: / by zero I am always executed	java.lang.ArithmeticException: / by zero I am always executed	~
~	2	3 10 20 30	<pre>java.lang.ArrayIndexOutOfBoundsException: Index 3 out of bounds for length 3 I am always executed</pre>	<pre>java.lang.ArrayIndexOutOfBoundsException: Index 3 out of bounds for length 3 I am always executed</pre>	~

//

```
Question 3
Correct
Marked out of 5.00
```

Write a Java program to create a method that takes an integer as a parameter and throws an exception if the number is odd.

## Sample input and Output:

```
82 is even.
Error: 37 is odd.
```

Fill the preloaded answer to get the expected output.

### For example:

```
Result
82 is even.
Error: 37 is odd.
```

Reset answer

Answer: (penalty regime: 0 %)

```
1
   class prog
2
3
       public static void main(String[] args)
```

```
4
 5
            int n = 82;
 6
            trynumber(n);
 7
            n = 37;
8
            trynumber(n);
9
10
11
        public static void trynumber(int n)
12
13
            try
14
            {
15
                 checkEvenNumber(n); // Call the checkEvenNumber() method
                 System.out.println(n + " is even.");
16
17
            catch (IllegalArgumentException e)
18
19
            {
                 System.out.println("Error: " + e.getMessage());
20
21
22
        }
23
        public static void checkEvenNumber(int number)
24
25
            if (number % 2 != 0)
26
27
28
                 throw new IllegalArgumentException(number + " is odd.");
29
30
31
```

Expected		Got	
~	82 is even.	82 is even.	~
	Error: 37 is odd.	Error: 37 is odd.	

Passed all tests! 🗸

### ■ Lab-09-MCQ

Jump to...

www.rajalakshmicolleges.org/moodle/mod/quiz/review.php?attempt=23760&cmid=289

6/7

The "Nambiar Number" Generator ►

# Dashboard / My courses / CS23333-OOPUJ-2023 / Lab-10- Collection- List / Lab-10-Logic Building

Status	Finished
Started	Monday, 4 November 2024, 8:28 AM
Completed	Monday, 4 November 2024, 8:50 AM
Duration	21 mins 47 secs

```
Question 1
Correct
Marked out of 1.00
```

Given an ArrayList, the task is to get the first and last element of the ArrayList in Java.

```
Input: ArrayList = [1, 2, 3, 4]
Output: First = 1, Last = 4
Input: ArrayList = [12, 23, 34, 45, 57, 67, 89]
Output: First = 12, Last = 89
```

### Approach:

- 1. Get the ArrayList with elements.
- 2. Get the first element of ArrayList using the get(index) method by passing index = 0.
- 3. Get the last element of ArrayList using the get(index) method by passing index = size 1.

Answer: (penalty regime: 0 %)

```
1 v import java.util.*;
    public class Main{
 2
        public static void main(String[] args){
 3
            Scanner scanner=new Scanner(System.in);
 5
             int n=scanner.nextInt();
 6
            ArrayList<Integer>arrayList=new ArrayList<>();
 7
            for(int i=0;i<n;i++)</pre>
 8
             {
 9
                 arrayList.add(scanner.nextInt());
10
11
             if(!arrayList.isEmpty())
12
13
                 int first=arrayList.get(0);
14
                 int last=arrayList.get(arrayList.size()-1);
                 System.out.println("ArrayList: "+arrayList);
15
16
                 System.out.println("First : "+first+", Last : "+last);
            }
17
18
             else
19
             {
20
                 System.out.println("The ArrayList is empty:");
21
             }
22
23
```

	Test	Input	Expected	Got	
~	1	6 30 20 40 50 10 80	ArrayList: [30, 20, 40, 50, 10, 80] First : 30, Last : 80	ArrayList: [30, 20, 40, 50, 10, 80] First : 30, Last : 80	~
~	2	4 5 15 25 35	ArrayList: [5, 15, 25, 35] First : 5, Last : 35	ArrayList: [5, 15, 25, 35] First : 5, Last : 35	~

Passed all tests! <

```
Question 2
Correct
Marked out of 1.00
```

The given Java program is based on the ArrayList methods and its usage. The Java program is partially filled. Your task is to fill in the incomplete statements to get the desired output.

list.set();

list.indexOf());

list.lastIndexOf())

list.contains()

list.size());

list.add();

list.remove();

The above methods are used for the below Java program.

Answer: (penalty regime: 0 %)

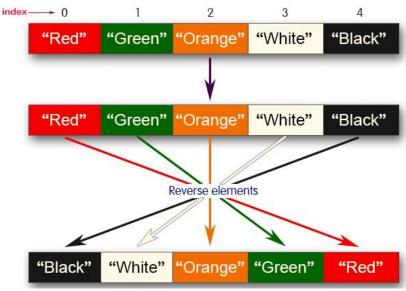
```
Reset answer
     import java.util.*;
  2
     import java.io.*;
  3
     class prog {
  5
         public static void main(String[] args)
  6
              Scanner sc= new Scanner(System.in);
  7
  8
              int n = sc.nextInt();
  9
              ArrayList<Integer> list = new ArrayList<Integer>();
 10
 11
              for(int i = 0; i<n;i++){</pre>
 12
                  list.add(sc.nextInt());
 13
              System.out.println("ArrayList: " + list);
 14
 15
             list.set(1,100);
             System.out.println("Index of 100 = "+list.indexOf(100));
 16
 17
              //Getting the index of last occurrence of 100
 18
 19
              System.out.println("LastIndex of 100 = "+list.lastIndexOf(100));
              // Check whether 200 is in the list or not
 20
 21
              System.out.println(list.contains(200)); //Output : false
 22
              // Print ArrayList size
 23
              System.out.println("Size Of ArrayList = "+ list.size());
              //Inserting 500 at index 1
 24
 25
              list.add(1,500);
                                                                // code here
 26
              //Removing an element from position 3
 27
             list.remove(3);
                                                            // code here
 28
              System.out.print("ArrayList: " + list);
 29
 30 }
```

	Test	Input	Expected	Got	
✓ 1 5		5	ArrayList: [1, 2, 3, 100, 5]	ArrayList: [1, 2, 3, 100, 5]	~
		1	Index of 100 = 1	Index of 100 = 1	
		2	LastIndex of 100 = 3	LastIndex of 100 = 3	
		3	false	false	
		100	Size Of ArrayList = 5	Size Of ArrayList = 5	
		5	ArrayList: [1, 500, 100, 100, 5]	ArrayList: [1, 500, 100, 100, 5]	

Passed all tests! <

```
Question 3
Correct
Marked out of 1.00
```

Write a Java program to reverse elements in an array list.



```
Sample input and Output:

Red
Green
Orange
White
Black
Sample output
List before reversing:
[Red, Green, Orange, White, Black]
List after reversing:
[Black, White, Orange, Green, Red]
```

```
1 * import java.util.*;
    public class ReverseArrayList{
 2 🔻
 3
        public static void main(String[] args){
            Scanner scanner=new Scanner(System.in);
 4
 5
            ArrayList<String>colorList=new ArrayList<>();
 6
            int n=scanner.nextInt();
 7
             scanner.nextLine();
             for(int i=0;i<n;i++)</pre>
 8
 9
10
                 String color=scanner.nextLine();
11
                 colorList.add(color);
12
13
             System.out.println("List before reversing :");
14
             System.out.println(colorList);
15
             Collections.reverse(colorList);
             System.out.println("List after reversing :");
16
17
             System.out.println(colorList);
18
19
```

	Test	Input	Expected	Got	
~	1	5 Red Green Orange White Black	List before reversing : [Red, Green, Orange, White, Black] List after reversing : [Black, White, Orange, Green, Red]	List before reversing : [Red, Green, Orange, White, Black] List after reversing : [Black, White, Orange, Green, Red]	~
~	✓ 2 4 List before reversing :  CSE [CSE, AIML, AIDS, CYBER]  AIML List after reversing :		[CSE, AIML, AIDS, CYBER] List after reversing :	List before reversing : [CSE, AIML, AIDS, CYBER] List after reversing : [CYBER, AIDS, AIML, CSE]	~

## ■ Lab-10-MCQ

Jump to...

Lab-11-MCQ ►

# <u>Dashboard</u> / <u>My courses</u> / <u>CS23333-OOPUJ-2023</u> / <u>Lab-11-Set, Map</u> / <u>Lab-11-Logic Building</u>

Status	Finished
Started	Friday, 8 November 2024, 5:24 PM
Completed	Friday, 8 November 2024, 5:55 PM
Duration	31 mins 1 sec

```
Question 1
Correct
Marked out of 1.00
```

Java HashSet class implements the Set interface, backed by a hash table which is actually a HashMap instance.

No guarantee is made as to the iteration order of the hash sets which means that the class does not guarantee the constant order of elements over time.

This class permits the null element.

The class also offers constant time performance for the basic operations like add, remove, contains, and size assuming the hash function disperses the elements properly among the buckets.

# Java HashSet Features

A few important features of HashSet are mentioned below:

- Implements Set Interface.
- The underlying data structure for HashSet is Hashtable.
- As it implements the Set Interface, duplicate values are not allowed.
- · Objects that you insert in HashSet are not guaranteed to be inserted in the same order. Objects are inserted based on their hash code.
- NULL elements are allowed in HashSet.
- HashSet also implements Serializable and Cloneable interfaces.

```
public class HashSet<E> extends AbstractSet<E> implements Set<E>, Cloneable, Serializable
Sample Input and Output:
5
90
56
45
78
25
78
Sample Output:
78 was found in the set.
Sample Input and output:
3
2
7
9
5
Sample Input and output:
6
sample Input and output:
7
sample Input and output:
8
sample Input and output:
9
sample Input and
```

```
Reset answer
  1 v import java.util.HashSet;
     import java.util.Scanner;
  3 🔻
     class prog {
  4
       public static void main(String[] args) {
         Scanner sc= new Scanner(System.in);
  5
  6
         int n = sc.nextInt();
  7
         // Create a HashSet object called numbers
  8
         HashSet<Integer> numbers= new HashSet<>();
 10
         // Add values to the set
 11
         for(int i=0;i<n;i++)</pre>
 12
         {
 13
              numbers.add(sc.nextInt());
 14
 15
         int skey=sc.nextInt();
 16
         // Show which numbers between 1 and 10 are in the set
 17
 18
         if(numbers.contains(skey))
 19
         {
 20
              System.out.println(skey+ " was found in the set.");
 21
 22
         else {
 23
              System.out.println(skey + " was not found in the set.");
 24
 25
         }
 26
    }
```

	Test	Input	Expected	Got	
~	1	5 90 56 45 78 25 78	78 was found in the set.	78 was found in the set.	~
~	2	3 -1 2 4 5	5 was not found in the set.	5 was not found in the set.	~

```
Question 2
Correct
Marked out of 1.00
```

Write a Java program to compare two sets and retain elements that are the same.

# **Sample Input and Output:**

5

Football

Hockey

Cricket

Volleyball

Basketball

## 7 // HashSet 2:

Golf

Cricket

Badminton

Football

Hockey

Volleyball

Handball

## **SAMPLE OUTPUT:**

Football

Hockey

Cricket

Volleyball Basketball

```
1 ▼ import java.util.HashSet;
    import java.util.Scanner;
 2
 3 .
    class prog{
        public static void main(String[] args)
 4
 5
 6
             Scanner sc=new Scanner(System.in);
 7
             int n1=sc.nextInt();
 8
             sc.nextLine();
            HashSet<String> set1= new HashSet<>();
 9
10
             for (int i=0;i<n1;i++)</pre>
11
12
                 set1.add(sc.nextLine());
13
14
             int n2=sc.nextInt();
15
             sc.nextLine();
             HashSet<String> set2=new HashSet<>();
16
17
             for(int i=0;i<n2;i++)</pre>
18
             {
19
                 set2.add(sc.nextLine());
20
             }
21
             set1.retainAll(set2);
22
             for(String sport:set1)
23
             {
24
                 System.out.println(sport);
25
26
        }
27
```

	Test	Input	Expected	Got	
~	1	5 Football Hockey Cricket Volleyball Basketball 7 Golf Cricket Badminton Football Hockey Volleyball Throwball	Cricket Hockey Volleyball Football	Cricket Hockey Volleyball Football	~
<b>~</b>	2	4 Toy Bus Car Auto 3 Car Bus Lorry	Bus Car	Bus Car	~

```
Question 3
Correct
Marked out of 1.00
```

Java HashMap Methods

containsKey() Indicate if an entry with the specified key exists in the map

contains Value() Indicate if an entry with the specified value exists in the map

putlfAbsent() Write an entry into the map but only if an entry with the same key does not already exist

remove() Remove an entry from the map

replace() Write to an entry in the map only if it exists

size() Return the number of entries in the map

Your task is to fill the incomplete code to get desired output

```
Reset answer
  1 ▼ import java.util.HashMap;
     import java.util.Map.Entry;
  3
     import java.util.Set;
  4
     import java.util.Scanner;
  5
      class prog
  6 •
  7
         public static void main(String[] args)
  8
  9
             //Creating HashMap with default initial capacity and load factor
 10
             HashMap<String, Integer> map = new HashMap<String, Integer>();
 11
             String name;
 12
             int num;
             Scanner sc= new Scanner(System.in);
 13
 14
              int n=sc.nextInt();
 15
              for(int i =0;i<n;i++)</pre>
 16
              {
 17
                   name=sc.next();
 18
                   num= sc.nextInt();
 19
                  map.put(name,num);
 20
 21
              //Printing key-value pairs
             Set<Entry<String, Integer>> entrySet = map.entrySet();
 22
 23
 24
             for (Entry<String, Integer> entry : entrySet)
 25
             {
 26
                  System.out.println(entry.getKey()+" : "+entry.getValue());
 27
             }
 28
              System.out.println("--
             //Creating another HashMap
 29
 30
             HashMap<String, Integer> anotherMap = new HashMap<String, Integer>();
             //Inserting key-value pairs to anotherMap using put() method
 31
 32
             anotherMap.put("SIX", 6);
             anotherMap.put("SEVEN", 7);
 33
 34
              //Inserting key-value pairs of map to anotherMap using putAll() method
 35
             anotherMap.putAll(map); // code here
 36
             //Printing key-value pairs of anotherMap
 37
             entrySet = anotherMap.entrySet();
 38
             for (Entry<String, Integer> entry : entrySet)
 39
             {
                  System.out.println(entry.getKey()+" : "+entry.getValue());
 40
 41
             }
 42
             //Adds key-value pair 'FIVE-5' only if it is not present in map
 43
 44
             map.putIfAbsent("FIVE", 5);
 45
 46
 47
             //Retrieving a value associated with key 'TWO'
 48
 49
              int value = map.get("TWO");
 50
             System.out.println(value);
 51
              //Checking whether key 'ONE' exist in map
 52
```

	Test	Input	Expected	Got	
~	1	3	ONE : 1	ONE : 1	~
		ONE	TWO : 2	TWO : 2	
		1	THREE : 3	THREE : 3	
		TWO			
		2	SIX: 6	SIX: 6	
		THREE	ONE : 1	ONE : 1	
		3	TWO : 2	TWO : 2	
			SEVEN : 7	SEVEN: 7	
			THREE : 3	THREE : 3	
			2	2	
			true	true	
			true	true	
			4	4	

# ■ Lab-11-MCQ

Jump to...

TreeSet example ►

# Dashboard / My courses / CS23333-OOPUJ-2023 / Lab-12-Introduction to I/O, I/O Operations, Object Serialization / Lab-12-Logic Building

Status	Finished
Started	Sunday, 10 November 2024, 11:31 AM
Completed	Sunday, 10 November 2024, 11:55 AM
Duration	23 mins 50 secs

Question **1**Correct

Marked out of 5.00

Write a function that takes an input String (sentence) and generates a new String (modified sentence) by reversing the words in the original String, maintaining the words position.

In addition, the function should be able to control the reversing of the case (upper or lowercase) based on a case\_option parameter, as follows:

If case\_option = 0, normal reversal of words i.e., if the original sentence is "Wipro TechNologies BangaLore", the new reversed sentence should be "orpiW seigoloNhceT eroLagnaB".

If case\_option = 1, reversal of words with retaining position's case i.e., if the original sentence is "Wipro TechNologies BangaLore", the new reversed sentence should be "Orpiw SeigOlonhcet ErolaGnab".

Note that positions 1, 7, 11, 20 and 25 in the original string are uppercase W, T, N, B and L.

Similarly, positions 1, 7, 11, 20 and 25 in the new string are uppercase O, S, O, E and G.

## NOTE:

- 1. Only space character should be treated as the word separator i.e., "Hello World" should be treated as two separate words, "Hello" and "World". However, "Hello,World", "Hello;World", "Hello-World" or "Hello/World" should be considered as a single word.
- 2. Non-alphabetic characters in the String should not be subjected to case changes. For example, if case option = 1 and the original sentence is "Wipro TechNologies, Bangalore" the new reversed sentence should be "Orpiw ,seiGolonhceT Erolagnab". Note that comma has been treated as part of the word "Technologies," and when comma had to take the position of uppercase T it remained as a comma and uppercase T took the position of comma. However, the words "Wipro and Bangalore" have changed to "Orpiw" and "Erolagnab".
- 3. Kindly ensure that no extra (additional) space characters are embedded within the resultant reversed String.

# Examples:

S. No.	input1	input2	output
1	Wipro Technologies Bangalore	0	orpiW seigolonhceT erolagnaB
2	Wipro Technologies, Bangalore	0	orpiW ,seigolonhceT erolagnaB
3	Wipro Technologies Bangalore	1	Orpiw Seigolonhcet Erolagnab
4	Wipro Technologies, Bangalore	1	Orpiw ,seigolonhceT Erolagnab

#### For example:

Input	Result
Wipro Technologies Bangalore 0	orpiW seigolonhceT erolagnaB
Wipro Technologies, Bangalore 0	orpiW ,seigolonhceT erolagnaB
Wipro Technologies Bangalore	Orpiw Seigolonhcet Erolagnab
Wipro Technologies, Bangalore	Orpiw ,seigolonhceT Erolagnab

## Answer: (penalty regime: 0 %)

```
1 •
    import java.util.*;
    public class SentenceReversal{
        public static void main(String[] args)
 3
 4
 5
            Scanner sc=new Scanner(System.in);
 6
            String sentence=sc.nextLine();
            int caseOption=sc.nextInt();
 7
 8
            if(caseOption!=0 && caseOption!=1)
 9
            {
10
11
            String result=reverseWordWithCaseOption(sentence, caseOption);
12
13
            System.out.println(result);
14
        public static String reverseWordWithCaseOption(String sentence,int caseOption)
15
16
17
```

```
18
            String[] words=sentence.split(" ");
            StringBuilder result=new StringBuilder();
19
20
             for(String word : words)
21
22
                 StringBuilder reversedWord=new StringBuilder();
                 StringBuilder tempWord=new StringBuilder(word).reverse();
23
24
                 if(caseOption==0)
25
                 {
                     reversedWord.append(tempWord);
26
27
                 }
28
                 else
29
                 {
                     for(int i=0;i<word.length();i++)</pre>
30
31
                         char originalChar=word.charAt(i);
32
33
                         char reversedChar=tempWord.charAt(i);
34
                         if(Character.isUpperCase(originalChar))
35
                         {
                               reversedWord.append(Character.toUpperCase(reversedChar));
36
37
38
                         else if(Character.isLowerCase(originalChar))
39
                         {
40
                               reversedWord.append(Character.toLowerCase(reversedChar));
41
                         }
42
                         else
43
                         {
44
                             reversedWord.append(reversedChar);
45
                         }
46
                     }
47
                 }
48
                 result.append(reversedWord).append(" ");
49
50
            return result.toString().trim();
51
52
```

	Input	Expected	Got	
~	Wipro Technologies Bangalore 0	orpiW seigolonhceT erolagnaB	orpiW seigolonhceT erolagnaB	~
~	Wipro Technologies, Bangalore 0	orpiW ,seigolonhceT erolagnaB	orpiW ,seigolonhceT erolagnaB	~
~	Wipro Technologies Bangalore	Orpiw Seigolonhcet Erolagnab	Orpiw Seigolonhcet Erolagnab	~
~	Wipro Technologies, Bangalore	Orpiw ,seigolonhceT Erolagnab	Orpiw ,seigolonhceT Erolagnab	~

/,

```
Question 2
Correct
```

Marked out of 5.00

You are provided with a string which has a sequence of 1's and 0's.

This sequence is the encoded version of a English word. You are supposed write a program to decode the provided string and find the original word.

Each alphabet is represented by a sequence of 0s.

This is as mentioned below:

Z:0

Y:00

X:000

W:0000

V:00000

U:000000

T:0000000

The sequence of 0's in the encoded form are separated by a single 1 which helps to distinguish between 2 letters.

#### Example 1:

input1: 010010001

The decoded string (original word) will be: ZYX

#### Example 2:

The decoded string (original word) will be: WIPRO

Note: The decoded string must always be in UPPER case.

# For example:

Input	Result
010010001	ZYX
0000100000000000000000010000000001000000	WIPRO

# Answer: (penalty regime: 0 %)

```
import java.util.*;
 2
    public class BinaryDecoder{
        public static void main(String[] args)
 3
 4
 5
            Scanner sc=new Scanner(System.in);
            String encoded=sc.nextLine();
 6
             String[] sequences= encoded.split("1");
 8
            StringBuilder decodedWord=new StringBuilder();
 9
             for(String seq:sequences){
                 if(!seq.isEmpty())
10
11
12
                     int letterPos=seq.length();
13
                     if(letterPos<=26)</pre>
14
                     {
                         char decodedChar=(char)('Z'-(letterPos-1));
15
16
                         decodedWord.append(decodedChar);
17
                     }
18
                 }
19
20
            System.out.println(decodedWord.toString());
21
        }
22
                                                                                                                           h
```

	Input	Expected	Got	
~	010010001	ZYX	ZYX	~
~	000010000000000000000000000000000000000	WIPRO	WIPRO	~

```
Question 3
Correct
Marked out of 5.00
```

Given two char arrays input1[] and input2[] containing only lower case alphabets, extracts the alphabets which are present in both arrays (common alphabets).

Get the ASCII values of all the extracted alphabets.

Calculate sum of those ASCII values. Lets call it sum1 and calculate single digit sum of sum1, i.e., keep adding the digits of sum1 until you arrive at a single digit.

Return that single digit as output.

#### Note:

- 1. Array size ranges from 1 to 10.
- 2. All the array elements are lower case alphabets.
- 3. Atleast one common alphabet will be found in the arrays.

#### Example 1:

```
input1: {'a', 'b', 'c'}
input2: {'b', 'c'}
output: 8
Explanation:
```

'b' and 'c' are present in both the arrays.

ASCII value of 'b' is 98 and 'c' is 99.

```
98 + 99 = 197
1 + 9 + 7 = 17
1 + 7 = 8
```

# For example:

Input	Result
a b c	8
b c	

Answer: (penalty regime: 0 %)

```
1 v import java.io.*;
    import java.util.*;
 3
    public class commonAlphabets{
        public static void main(String[] args)
 5
 6
            Scanner sc=new Scanner(System.in);
            String input1=sc.nextLine().replace(" ,","");
 7
 8
            char[] array1=input1.toCharArray();
 9
            String input2=sc.nextLine().replace(" ","");
10
            char[] array2=input2.toCharArray();
            int result=calculateSingleDigitSum(array1,array2);
11
12
            System.out.println(result);
13
14
15
        private static int calculateSingleDigitSum(char[] input1,char[] input2)
16
17
            HashSet<Character> set1=new HashSet<>();
            for(char c : input1)
18
19
20
                 set1.add(c);
21
22
            int sum1=0;
23
            for(char c: input2)
24
25
                 if(set1.contains(c))
26
                 {
27
                     sum1+=(int) c;
28
29
            return getDigitalRoot(sum1);
30
```

```
31
        private static int getDigitalRoot(int sum)
32
33 •
34
            if(sum==0)
35 .
            {
                return 0;
36
37
            }
38
            else
39
            {
40
                return 1+ ((sum-1)%9);
41
            }
42
        }
43 }
```

	Input	Expected	Got	
~	a b c	8	8	~

# ■ Lab-12-MCQ

Jump to...

Identify possible words ►

//

# JAVA PROJECT MINIPROJECT HOTAL MANAGEMENT SYSTEM BY SRI BALAJI P(231501160) SKANDHA T.R(231501156)

COLLEGE NAME: RAJALAKSHMI ENGINEERING COLLEGE

**DEPARTMENT**: AIML-C

SUBJECT : JAVA OOP

SUBJECT CODE : CS23333

# **ABSTRACT:-**

This project focuses on the development of a **Hotel Management System** using **SQL and Java**, designed to streamline and simplify essential operational tasks. The system primarily incorporates the following functionalities:-

- 1. **User Authentication and Security**: A robust login module ensures secure access for authorized users, safeguarding sensitive hotel data.
- 2. **Data Management Operations**: Core functionalities include:
  - Insertion: Adding new customer records, room details, and booking information to the database.
  - Updating: Modifying existing data, such as room availability, customer details, or booking changes.
  - Deletion: Removing outdated or erroneous records efficiently while maintaining database integrity.
  - Retrieval: Fetching relevant data quickly for reporting and operational needs.
- 3. **Database Integration**: The system utilizes **SQL** for designing and managing relational databases, ensuring seamless data storage, retrieval, and manipulation.
- 4. **Scalability**: The architecture is built to accommodate future enhancements, such as room reservation systems, billing modules, and customer feedback management.
- 5. **Java-based Implementation**: Java is leveraged to handle the application's backend logic and user interface design, enabling a smooth interaction between the user and the database.

This project demonstrates the practical application of SQL and Java in creating a foundational hotel management system, offering a stepping stone toward a more comprehensive and fully automated solution.

# **JAVA PROGRAM:-**

```
import java.awt.*;
import javax.swing.*;
import javax.swing.border.*;
import java.awt.event.*;
import java.sql.*;
import java.util.*;
public class AddDrivers extends JFrame implements ActionListener{
  private JPanel contentPane;
  private JTextField t1,t2,t3,t4, t5;
  private JComboBox comboBox, comboBox_1;
  JButton b1,b2;
  Choice c1;
  public static void main(String[] args) {
    new AddDrivers().setVisible(true);
  }
  public AddDrivers() {
    setBounds(450, 200, 1000, 500);
       contentPane = new JPanel();
       setContentPane(contentPane);
       contentPane.setLayout(null);
    ImageIcon i1 = new ImageIcon(ClassLoader.getSystemResource("hotel/management/system/icons/eleven.jpg"));
        Image i3 = i1.getImage().getScaledInstance(500, 300,Image.SCALE_DEFAULT);
        Imagelcon i2 = new Imagelcon(i3);
        JLabel | 115 = new JLabel(i2);
```

```
l15.setBounds(400,30,500,370);
    add(I15);
JLabel I10 = new JLabel("Add Drivers");
l10.setFont(new Font("Tahoma", Font.BOLD, 18));
   I10.setBounds(194, 10, 120, 22);
   contentPane.add(I10);
   JLabel I1 = new JLabel("Name");
   l1.setForeground(new Color(25, 25, 112));
   I1.setFont(new Font("Tahoma", Font.BOLD, 14));
   l1.setBounds(64, 70, 102, 22);
   contentPane.add(l1);
t1 = new JTextField();
   t1.setBounds(174, 70, 156, 20);
   contentPane.add(t1);
   JLabel I2 = new JLabel("Age");
   12.setForeground(new Color(25, 25, 112));
   12.setFont(new Font("Tahoma", Font.BOLD, 14));
   l2.setBounds(64, 110, 102, 22);
   contentPane.add(I2);
t2 = new JTextField();
   t2.setBounds(174, 110, 156, 20);
   contentPane.add(t2);
   JLabel I3 = new JLabel("Gender");
   13.setForeground(new Color(25, 25, 112));
   13.setFont(new Font("Tahoma", Font.BOLD, 14));
   13.setBounds(64, 150, 102, 22);
   contentPane.add(I3);
```

```
comboBox = new JComboBox(new String[] { "Male", "Female" });
   comboBox.setBounds(176, 150, 154, 20);
   contentPane.add(comboBox);
   JLabel I4 = new JLabel("Car Company");
   14.setForeground(new Color(25, 25, 112));
   14.setFont(new Font("Tahoma", Font.BOLD, 14));
   I4.setBounds(64, 190, 102, 22);
   contentPane.add(I4);
t3 = new JTextField();
   t3.setBounds(174, 190, 156, 20);
   contentPane.add(t3);
JLabel I5 = new JLabel("Car Brand");
   I5.setForeground(new Color(25, 25, 112));
   I5.setFont(new Font("Tahoma", Font.BOLD, 14));
   I5.setBounds(64, 230, 102, 22);
   contentPane.add(I5);
t4 = new JTextField();
   t4.setBounds(174, 230, 156, 20);
   contentPane.add(t4);
JLabel I6 = new JLabel("Available");
   l6.setForeground(new Color(25, 25, 112));
   l6.setFont(new Font("Tahoma", Font.BOLD, 14));
   I6.setBounds(64, 270, 102, 22);
   contentPane.add(I6);
```

```
comboBox_1 = new JComboBox(new String[] { "Yes", "No" });
   comboBox_1.setBounds(176, 270, 154, 20);
   contentPane.add(comboBox_1);
JLabel I7 = new JLabel("Location");
   I7.setForeground(new Color(25, 25, 112));
   17.setFont(new Font("Tahoma", Font.BOLD, 14));
   17.setBounds(64, 310, 102, 22);
   contentPane.add(I7);
t5 = new JTextField();
   t5.setBounds(174, 310, 156, 20);
   contentPane.add(t5);
   b1 = new JButton("Add");
   b1.addActionListener(this);
   b1.setBounds(64, 380, 111, 33);
b1.setBackground(Color.BLACK);
b1.setForeground(Color.WHITE);
   contentPane.add(b1);
   b2 = new JButton("Back");
   b2.addActionListener(this);
   b2.setBounds(198, 380, 111, 33);
b2.setBackground(Color.BLACK);
b2.setForeground(Color.WHITE);
   contentPane.add(b2);
contentPane.setBackground(Color.WHITE);
```

}

```
public void actionPerformed(ActionEvent ae){
   try{
     if(ae.getSource() == b1){
       try{
       conn c = new conn();
       String name = t1.getText();
       String age = t2.getText();
       String gender = (String)comboBox.getSelectedItem();
       String company = t3.getText();
       String brand = t4.getText();
       String available = (String)comboBox_1.getSelectedItem();
       String location = t5.getText();
       String str = "INSERT INTO driver values( ""+name+"', ""+age+"', ""+gender+"', ""+company+"', ""+brand+"', ""+available
              c.s.executeUpdate(str);
              JOptionPane.showMessageDialog(null, "Driver Successfully Added");
       this.setVisible(false);
       }catch(Exception ee){
         System.out.println(ee);
       }
     }
     else if(ae.getSource() == b2){
       this.setVisible(false);
     }
   }catch(Exception eee){
```

```
import java.awt.EventQueue;
import java.awt.*;
import java.awt.event.*;
import java.sql.*;
import javax.swing.*;
public class AddEmployee extends JFrame{ //Third Frame
       JTextField textField_1,textField_2,textField_3,textField_4,textField_5,textField_6;
    JComboBox c1;
    public AddEmployee(){
      getContentPane().setForeground(Color.BLUE);
      getContentPane().setBackground(Color.WHITE);
      setTitle("ADD EMPLOYEE DETAILS");
      setDefaultCloseOperation(JFrame.HIDE_ON_CLOSE);
      setSize(778,486);
      getContentPane().setLayout(null);
      JLabel Passportno = new JLabel("NAME");
      Passportno.setFont(new Font("Tahoma", Font.PLAIN, 17));
      Passportno.setBounds(60, 30, 150, 27);
      add(Passportno);
```

```
<del>textField = new JTextField(),</del>
textField.setBounds(200, 30, 150, 27);
add(textField);
JButton Next = new JButton("SAVE");
Next.setBounds(200, 420, 150, 30);
Next.setBackground(Color.BLACK);
Next.setForeground(Color.WHITE);
add(Next);
JLabel Pnrno = new JLabel("AGE");
Pnrno.setFont(new Font("Tahoma", Font.PLAIN, 17));
Pnrno.setBounds(60, 80, 150, 27);
add(Pnrno);
textField_1 = new JTextField();
textField_1.setBounds(200, 80, 150, 27);
add(textField_1);
JLabel Gender = new JLabel("GENDER");
Gender.setFont(new Font("Tahoma", Font.PLAIN, 17));
Gender.setBounds(60, 120, 150, 27);
add(Gender);
JRadioButton NewRadioButton = new JRadioButton("MALE");
NewRadioButton.setBackground(Color.WHITE);
NewRadioButton.setBounds(200, 120, 70, 27);
add(NewRadioButton);
JRadioButton Female = new JRadioButton("FEMALE");
Female.setBackground(Color.WHITE);
Female.setBounds(280, 120, 70, 27);
```

```
JLabel Address = new JLabel("JOB");
      Address.setFont(new Font("Tahoma", Font.PLAIN, 17));
      Address.setBounds(60, 170, 150, 27);
      add(Address);
      String course[] = {"Front Desk Clerks","Porters","Housekeeping","Kitchen Staff","Room
Service", "Waiter/Waitress", "Manager", "Accountant", "Chef"};
      c1 = new JComboBox(course);
      c1.setBackground(Color.WHITE);
      c1.setBounds(200,170,150,30);
      add(c1);
      JLabel Nationality = new JLabel("SALARY");
      Nationality.setFont(new Font("Tahoma", Font.PLAIN, 17));
      Nationality.setBounds(60, 220, 150, 27);
      add(Nationality);
      textField_3 = new JTextField();
      textField_3.setBounds(200, 220, 150, 27);
      add(textField_3);
      JLabel Name = new JLabel("PHONE");
      Name.setFont(new Font("Tahoma", Font.PLAIN, 17));
      Name.setBounds(60, 270, 150, 27);
      add(Name);
      textField_4 = new JTextField();
      textField_4.setBounds(200, 270, 150, 27);
      add(textField_4);
      JLabel Phno = new JLabel("AADHAR");
```

```
Phno.setFont(new Font("Tahoma", Font.PLAIN, 17)),
      Phno.setBounds(60, 320, 150, 27);
      add(Phno);
      textField_5 = new JTextField();
      textField_5.setBounds(200, 320, 150, 27);
      add(textField_5);
      JLabel email = new JLabel("EMAIL");
      email.setFont(new Font("Tahoma", Font.PLAIN, 17));
      email.setBounds(60, 370, 150, 27);
      add(email);
      textField_6 = new JTextField();
      textField_6.setBounds(200, 370, 150, 27);
      add(textField_6);
      setVisible(true);
      JLabel AddPassengers = new JLabel("ADD EMPLOYEE DETAILS");
      AddPassengers.setForeground(Color.BLUE);
      AddPassengers.setFont(new Font("Tahoma", Font.PLAIN, 31));
      AddPassengers.setBounds(450, 24, 442, 35);
      add(AddPassengers);
      Imagelcon i1 = new
ImageIcon(ClassLoader.getSystemResource("hotel/management/system/icons/tenth.jpg"));
      Image i3 = i1.getImage().getScaledInstance(500, 500,Image.SCALE_DEFAULT);
      ImageIcon i2 = new ImageIcon(i3);
      JLabel image = new JLabel(i2);
      image.setBounds(410,80,480,410);
      add(image);
      Next.addActionListener(new ActionListener(){
        public void actionPerformed(ActionEvent ae){
```

```
String name = textField.getText(),
           String age = textField_1.getText();
           String salary = textField_3.getText();
          String phone = textField_4.getText();
           String aadhar = textField_5.getText();
           String email = textField_6.getText();
           String gender = null;
           if(NewRadioButton.isSelected()){
             gender = "male";
           }else if(Female.isSelected()){
             gender = "female";
           }
           String s6 = (String)c1.getSelectedItem();
           try {
             conn c = new conn();
             String str = "INSERT INTO employee values( ""+name+"', ""+age+"', ""+gender+"', ""+s6+"', ""+salary+"',
""+phone+"",'"+aadhar+"", ""+email+"")";
             c.s.executeUpdate(str);
             JOptionPane.showMessageDialog(null,"Employee Added");
             setVisible(false);
           } catch (Exception e) {
             e.printStackTrace();
          }
                }
      });
      setSize(900,600);
      setVisible(true);
      setLocation(530,200);
        }
  public static void main(String[] args){
```

```
<del>new AddEmployee(),</del>
  }
}
import java.awt.*;
import javax.swing.*;
import javax.swing.border.*;
import java.awt.event.*;
import java.sql.*;
import java.util.*;
public class AddRoom extends JFrame implements ActionListener{
  private JPanel contentPane;
  private JTextField t1,t2,t3,t4;
  private JComboBox comboBox, comboBox_1, comboBox_2, comboBox_3;
  JButton b1,b2;
  Choice c1;
  public static void main(String[] args) {
    new AddRoom().setVisible(true);
  }
  public AddRoom() {
    setBounds(450, 200, 1000, 450);
        contentPane = new JPanel();
        setContentPane(contentPane);
       contentPane.setLayout(null);
    ImageIcon i1 = new
ImageIcon(ClassLoader.getSystemResource("hotel/management/system/icons/twelve.jpg"));
        Image i3 = i1.getImage().getScaledInstance(500, 300,Image.SCALE_DEFAULT);
        Imagelcon i2 = new Imagelcon(i3);
        JLabel | 15 = new JLabel(i2);
        l15.setBounds(400,30,500,370);
        add(I15);
    JLabel I10 = new JLabel("Add Rooms");
```

```
<del>l10.setFont(new Font("Tahoma", Font.BOLD, 18)),</del>
   l10.setBounds(194, 10, 120, 22);
   contentPane.add(I10);
   JLabel I1 = new JLabel("Room Number");
   l1.setForeground(new Color(25, 25, 112));
   l1.setFont(new Font("Tahoma", Font.BOLD, 14));
   11.setBounds(64, 70, 102, 22);
   contentPane.add(l1);
t4 = new JTextField();
   t4.setBounds(174, 70, 156, 20);
   contentPane.add(t4);
   JLabel I2 = new JLabel("Availability");
   12.setForeground(new Color(25, 25, 112));
   12.setFont(new Font("Tahoma", Font.BOLD, 14));
   12.setBounds(64, 110, 102, 22);
   contentPane.add(I2);
comboBox = new JComboBox(new String[] { "Available", "Occupied" });
   comboBox.setBounds(176, 110, 154, 20);
   contentPane.add(comboBox);
   JLabel I3 = new JLabel("Cleaning Status");
   13.setForeground(new Color(25, 25, 112));
   13.setFont(new Font("Tahoma", Font.BOLD, 14));
   13.setBounds(64, 150, 102, 22);
   contentPane.add(I3)
comboBox_2 = new JComboBox(new String[] { "Cleaned", "Dirty" });
   comboBox_2.setBounds(176, 150, 154, 20);
   contentPane.add(comboBox 2);
   JLabel I4 = new JLabel("Price");
   14.setForeground(new Color(25, 25, 112));
   14.setFont(new Font("Tahoma", Font.BOLD, 14));
   I4.setBounds(64, 190, 102, 22);
```

```
t2 = new JTextField();
     t2.setBounds(174, 190, 156, 20);
     contentPane.add(t2);
  JLabel I5 = new JLabel("Bed Type");
     15.setForeground(new Color(25, 25, 112));
     15.setFont(new Font("Tahoma", Font.BOLD, 14));
     I5.setBounds(64, 230, 102, 22);
     contentPane.add(I5);
  comboBox_3 = new JComboBox(new String[] { "Single Bed", "Double Bed"});
     comboBox_3.setBounds(176, 230, 154, 20);
     contentPane.add(comboBox_3)
     b1 = new JButton("Add");
     b1.addActionListener(this);
     b1.setBounds(64, 321, 111, 33);
  b1.setBackground(Color.BLACK);
  b1.setForeground(Color.WHITE);
     contentPane.add(b1);
     b2 = new JButton("Back");
     b2.addActionListener(this);
     b2.setBounds(198, 321, 111, 33);
  b2.setBackground(Color.BLACK);
  b2.setForeground(Color.WHITE);
     contentPane.add(b2);
  contentPane.setBackground(Color.WHITE);
}
```

public void actionPerformed(ActionEvent ae){

try{

```
if(ae.getSource() == b1){
        try{
        conn c = new conn();
        String room = t4.getText();
        String available = (String)comboBox.getSelectedItem();
        String status = (String)comboBox_2.getSelectedItem();
        String price = t2.getText();
        String type = (String)comboBox_3.getSelectedItem();
        String str = "INSERT INTO room values( ""+room+"', ""+available+"', ""+status+"', ""+price+"', ""+type+"")";
                c.s.executeUpdate(str);
               JOptionPane.showMessageDialog(null, "Room Successfully Added");
        this.setVisible(false);
        }catch(Exception ee){
           System.out.println(ee);
        }
      }
      else if(ae.getSource() == b2){
        this.setVisible(false);
      }
    }catch(Exception eee){
    }
  }
package hotel.management.system;
import java.awt.BorderLayout;
import java.awt.*;
import java.awt.EventQueue;
import java.sql.*;
import javax.swing.*;
import javax.swing.border.EmptyBorder;
```

```
<del>import java.awt.Font,</del>
import java.awt.event.*;
import java.awt.event.ActionEvent;
public class CheckOut extends JFrame{
        Connection conn = null;
        PreparedStatement pst = null;
        private JPanel contentPane;
        private JTextField t1;
    Choice c1;
        public static void main(String[] args) {
                EventQueue.invokeLater(new Runnable() {
                        public void run() {
                                try {
                                        CheckOut frame = new CheckOut();
                                        frame.setVisible(true);
                                } catch (Exception e) {
                                        e.printStackTrace();
                                }
                        }
                });
        }
        public void close(){
                this.dispose();
        }
        public CheckOut() throws SQLException {
                //conn = Javaconnect.getDBConnection();
                setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
                setBounds(530, 200, 800, 294);
                contentPane = new JPanel();
                contentPane.setBorder(new EmptyBorder(5, 5, 5, 5));
                setContentPane(contentPane);
```

contentPane.setLayout(null)

```
ImageIcon i1 = new ImageIcon(ClassLoader.getSystemResource("hotel/management/system/icons/sixth.jpg"));
        Image i3 = i1.getImage().getScaledInstance(400, 225,Image.SCALE_DEFAULT);
        ImageIcon i2 = new ImageIcon(i3);
        JLabel | 1 = new JLabel(i2);
        l1.setBounds(300,0,500,225);
        add(l1);
               JLabel lblCheckOut = new JLabel("Check Out ");
               lblCheckOut.setFont(new Font("Tahoma", Font.PLAIN, 20));
               lblCheckOut.setBounds(70, 11, 140, 35);
               contentPane.add(lblCheckOut);
               JLabel lblName = new JLabel("Number :");
               IblName.setBounds(20, 85, 80, 14);
               contentPane.add(lblName);
        c1 = new Choice();
        try{
          conn c = new conn();
          ResultSet rs = c.s.executeQuery("select * from customer");
          while(rs.next()){
            c1.add(rs.getString("number"));
          }
        }catch(Exception e){ }
        c1.setBounds(130, 82, 150, 20);
               contentPane.add(c1);
        Imagelcon i4 = new
ImageIcon(ClassLoader.getSystemResource("hotel/management/system/icons/tick.png"));
        Image i5 = i4.getImage().getScaledInstance(20, 20,Image.SCALE_DEFAULT);
        Imagelcon i6 = new Imagelcon(i5);
```

```
<del>JButton I2 – new JButton(i6),</del>
l2.setBounds(290,82,20,20);
add(I2);
12.addActionListener(new ActionListener(){
  public void actionPerformed(ActionEvent ae){
    System.out.println("Hi");
    try{
      conn c = new conn();
      String number = c1.getSelectedItem();
      ResultSet rs = c.s.executeQuery("select * from customer where number = "+number);
      if(rs.next()){
        System.out.println("clicked");
        t1.setText(rs.getString("room_number"));
      }
    }catch(Exception e){ }
  }
});
       JLabel lblRoomNumber = new JLabel("Room Number:");
       lblRoomNumber.setBounds(20, 132, 86, 20);
       contentPane.add(lblRoomNumber);
       t1 = new JTextField();
t1.setBounds(130, 132, 150, 20);
       contentPane.add(t1);
       JButton btnCheckOut = new JButton("Check Out");
       btnCheckOut.addActionListener(new ActionListener() {
               public void actionPerformed(ActionEvent e) {
        String id = c1.getSelectedItem();
        String s1 = t1.getText();
```

```
<del>String deleteSQL = "Delete from customer where number = "</del>
        String q2 = "update room set availability = 'Available' where room_number = "+s1;
                      conn c = new conn();
              try{
                      c.s.executeUpdate(deleteSQL);
                      c.s.executeUpdate(q2);
                      JOptionPane.showMessageDialog(null, "Check Out Successful");
                       new Reception().setVisible(true);
        setVisible(false);
              }catch(SQLException e1){
                      System.out.println(e1.getMessage());
              }
      });
      btnCheckOut.setBounds(50, 200, 100, 25);
btnCheckOut.setBackground(Color.BLACK);
btnCheckOut.setForeground(Color.WHITE);
      contentPane.add(btnCheckOut);
      JButton btnExit = new JButton("Back");
       btnExit.addActionListener(new ActionListener() {
              public void actionPerformed(ActionEvent e) {
                      new Reception().setVisible(true);
        setVisible(false);
              }
      });
      btnExit.setBounds(160, 200, 100, 25);
btnExit.setBackground(Color.BLACK);
btnExit.setForeground(Color.WHITE);
      contentPane.add(btnExit);
```

```
getContentPane().setBackground(Color.WHITE),
        }
}
package hotel.management.system;
import java.awt.BorderLayout;
import java.awt.*;
import javax.swing.JFrame;
import javax.swing.JPanel;
import javax.swing.border.EmptyBorder;
import net.proteanit.sql.DbUtils;
import java.sql.*;
import javax.swing.*;
import javax.swing.JTable;
import javax.swing.JButton;
import java.awt.event.ActionListener;
import java.awt.event.ActionEvent;
public class CustomerInfo extends JFrame {
        Connection conn = null;
        private JPanel contentPane;
        private JLabel IblId;
        private JLabel lblNewLabel;
        private JLabel lblGender;
        private JTable table;
        private JLabel lblCountry;
        private JLabel lblRoom;
        private JLabel lblStatus;
        private JLabel lblNewLabel_1;
```

```
/**
* Launch the application.
*/
public static void main(String[] args) {
        EventQueue.invokeLater(new Runnable() {
               public void run() {
                       try {
                               CustomerInfo frame = new CustomerInfo();
                               frame.setVisible(true);
                       } catch (Exception e) {
                               e.printStackTrace();
                       }
               }
       });
}
public void close()
       this.dispose();
}
public CustomerInfo() throws SQLException {
       //conn = Javaconnect.getDBConnection();
       setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
       setBounds(530, 200, 900, 600);
       contentPane = new JPanel();
       contentPane.setBorder(new EmptyBorder(5, 5, 5, 5));
       setContentPane(contentPane);
       contentPane.setLayout(null);
       JButton btnExit = new JButton("Back");
        btnExit.addActionListener(new ActionListener() {
               public void actionPerformed(ActionEvent e) {
                       new Reception().setVisible(true);
```

```
}
       });
btnExit.setBounds(450, 510, 120, 30);
btnExit.setBackground(Color.BLACK);
btnExit.setForeground(Color.WHITE);
       contentPane.add(btnExit);
       JButton btnLoadData = new JButton("Load Data");
       btnLoadData.addActionListener(new ActionListener() {
              public void actionPerformed(ActionEvent arg0) {
                      try{
          conn c = new conn();
                      String displayCustomersql = "select * from Customer";
                      ResultSet rs = c.s.executeQuery(displayCustomersql);
                      table.setModel(DbUtils.resultSetToTableModel(rs));
              }
                      catch(Exception e)
                      {
                              e.printStackTrace();
                      }
              }
       });
       btnLoadData.setBounds(300, 510, 120, 30);
btnLoadData.setBackground(Color.BLACK);
btnLoadData.setForeground(Color.WHITE);
       contentPane.add(btnLoadData);
       lblId = new JLabel("ID");
       lblld.setBounds(31, 11, 46, 14);
       contentPane.add(lblId);
JLabel I1 = new JLabel("Number");
```

```
11.setBounds(150, 11, 46, 14),
               contentPane.add(l1);
               lblNewLabel = new JLabel("Name");
               lblNewLabel.setBounds(270, 11, 65, 14);
               contentPane.add(lblNewLabel);
               lblGender = new JLabel("Gender");
               lblGender.setBounds(360, 11, 46, 14);
               contentPane.add(lblGender);
               table = new JTable();
               table.setBounds(0, 40, 900, 450);
               contentPane.add(table);
               lblCountry = new JLabel("Country");
               lblCountry.setBounds(480, 11, 46, 14);
               contentPane.add(lblCountry);
               lblRoom = new JLabel("Room");
               lblRoom.setBounds(600, 11, 46, 14);
               contentPane.add(lblRoom);
               lblStatus = new JLabel("Check-in Status");
               lblStatus.setBounds(680, 11, 100, 14);
               contentPane.add(lblStatus);
               lblNewLabel_1 = new JLabel("Deposit");
               lblNewLabel_1.setBounds(800, 11, 100, 14);
               contentPane.add(lblNewLabel_1);
        getContentPane().setBackground(Color.WHITE);
       }
}
package hotel.management.system;
import java.awt.*;
import javax.swing.*;
import java.awt.event.*;
public class Dashboard extends JFrame{
```

```
<del>public static void main(String[] args) {</del>
  new Dashboard().setVisible(true);
}
public Dashboard() {
  super("HOTEL MANAGEMENT SYSTEM");
  setForeground(Color.CYAN);
  setLayout(null);
  ImageIcon i1 = new ImageIcon(ClassLoader.getSystemResource("hotel/management/system/icons/third.jpg"));
  Image i2 = i1.getImage().getScaledInstance(1950, 1000,Image.SCALE_DEFAULT);
  ImageIcon i3 = new ImageIcon(i2);
     JLabel NewLabel = new JLabel(i3);
     NewLabel.setBounds(0, 0, 1950, 1000);
  add(NewLabel);
  JLabel AirlineManagementSystem = new JLabel("THE TAJ GROUP WELCOMES YOU");
     AirlineManagementSystem.setForeground(Color.WHITE);
  AirlineManagementSystem.setFont(new Font("Tahoma", Font.PLAIN, 46));
     AirlineManagementSystem.setBounds(600, 60, 1000, 85);
     NewLabel.add(AirlineManagementSystem);
  JMenuBar menuBar = new JMenuBar();
     setJMenuBar(menuBar);
  JMenu AirlineSystem = new JMenu("HOTEL MANAGEMENT");
  AirlineSystem.setForeground(Color.BLUE);
     menuBar.add(AirlineSystem);
  JMenuItem FlightDetails = new JMenuItem("RECEPTION");
     AirlineSystem.add(FlightDetails);
     JMenu AirlineSystemHello = new JMenu("ADMIN");
  AirlineSystemHello.setForeground(Color.RED);
     menuBar.add(AirlineSystemHello);
  JMenuItem FlightDetailshello1 = new JMenuItem("ADD EMPLOYEE");
     AirlineSystemHello.add(FlightDetailshello1);
  FlightDetailshello1.addActionListener(new ActionListener(){
```

```
try{
      new AddEmployee().setVisible(true);
  }catch(Exception e ){}
  }
   });
JMenuItem FlightDetailshello2 = new JMenuItem("ADD ROOMS");
   AirlineSystemHello.add(FlightDetailshello2);
FlightDetailshello2.addActionListener(new ActionListener(){
  public void actionPerformed(ActionEvent ae){
    try{
      new AddRoom().setVisible(true);
    }catch(Exception e ){}
  }
   });
   FlightDetails.addActionListener(new ActionListener(){
  public void actionPerformed(ActionEvent ae){
    new Reception();
  }
   });
JMenuItem FlightDetailshello3 = new JMenuItem("ADD DRIVERS");
   AirlineSystemHello.add(FlightDetailshello3);
   FlightDetailshello3.addActionListener(new ActionListener(){
  public void actionPerformed(ActionEvent ae){
    try{
      new AddDrivers().setVisible(true);
    }catch(Exception e ){}
  }
   });
setSize(1950,1090);
   setVisible(true);
```

	getContentPane().setBackground(Color.WHI	ite),
	0 (/ 0 (	,,
}	ı	
ا ا	J	
,		
}		

```
package hotel.management.system;
import java.awt.BorderLayout;
import java.awt.*;
import javax.swing.JFrame;
import javax.swing.JPanel;
import javax.swing.border.EmptyBorder;
import net.proteanit.sql.DbUtils;
import javax.swing.JTable;
import java.sql.*;
import javax.swing.*;
import java.awt.event.ActionListener;
import java.awt.event.ActionEvent;
public class Department extends JFrame {
       Connection conn = null;
        private JPanel contentPane;
       private JTable table;
        private JLabel lblNewLabel;
       private JLabel lblNewLabel_1;
        public static void main(String[] args) {
                EventQueue.invokeLater(new Runnable() {
                       public void run() {
                               try {
                                       Department frame = new Department();
                                       frame.setVisible(true);
                               } catch (Exception e) {
                                       e.printStackTrace();
                               }
                       }
               });
       public void close()
```

```
this.dispose();
}
public Department() throws SQLException {
       //conn = Javaconnect.getDBConnection();
       setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
       setBounds(600, 200, 700, 500);
       contentPane = new JPanel();
       contentPane.setBorder(new EmptyBorder(5, 5, 5, 5));
       setContentPane(contentPane);
       contentPane.setLayout(null);
       table = new JTable();
       table.setBounds(0, 40, 700, 350);
       contentPane.add(table);
       JButton btnNewButton = new JButton("Load Data");
       btnNewButton.addActionListener(new ActionListener() {
               public void actionPerformed(ActionEvent e) {
                       try{
           conn c = new conn();
                               String displayCustomersql = "select * from Department";
                               ResultSet rs = c.s.executeQuery(displayCustomersql);
                               table.setModel(DbUtils.resultSetToTableModel(rs));
                       }
                       catch (Exception e1){
                               e1.printStackTrace();
                       }
               }
       });
       btnNewButton.setBounds(170, 410, 120, 30);
btnNewButton.setBackground(Color.BLACK);
btnNewButton.setForeground(Color.WHITE);
```

{

```
contentPane.add(btnNewButton);
               JButton btnNewButton_1 = new JButton("Back");
               btnNewButton_1.addActionListener(new ActionListener() {
                       public void actionPerformed(ActionEvent e) {
                                      new Reception().setVisible(true);
                     setVisible(false);
                       }
               });
               btnNewButton_1.setBounds(400, 410, 120, 30);
        btnNewButton_1.setBackground(Color.BLACK);
        btnNewButton_1.setForeground(Color.WHITE);
               contentPane.add(btnNewButton_1);
               lblNewLabel = new JLabel("Department");
               lblNewLabel.setBounds(145, 11, 105, 14);
               contentPane.add(lblNewLabel);
               lblNewLabel_1 = new JLabel("Budget");
               lblNewLabel_1.setBounds(431, 11, 75, 14);
               contentPane.add(lblNewLabel_1);
        getContentPane().setBackground(Color.WHITE);
       }
}
package hotel.management.system;
import java.awt.*;
import javax.swing.*;
import java.awt.event.*;
import java.sql.*;
public class Login extends JFrame implements ActionListener{
  JLabel l1,l2;
  JTextField t1;
  JPasswordField t2;
  JButton b1,b2;
```

```
Login(){
    super("Login");
    setLayout(null);
    I1 = new JLabel("Username");
    I1.setBounds(40,20,100,30);
    add(l1);
    12 = new JLabel("Password");
    12.setBounds(40,70,100,30);
    add(I2);
    t1=new JTextField();
    t1.setBounds(150,20,150,30);
    add(t1);
    t2=new JPasswordField();
    t2.setBounds(150,70,150,30);
    add(t2);
    Imagelcon i1 = new
ImageIcon(ClassLoader.getSystemResource("hotel/management/system/icons/second.jpg"));
    Image i2 = i1.getImage().getScaledInstance(200,200,Image.SCALE_DEFAULT);
    ImageIcon i3 = new ImageIcon(i2);
    JLabel I3 = new JLabel(i3);
    l3.setBounds(350,10,150,150);
    add(I3);
    b1 = new JButton("Login");
    b1.setBounds(40,140,120,30);
    b1.setFont(new Font("serif",Font.BOLD,15));
    b1.addActionListener(this);
    b1.setBackground(Color.BLACK);
    b1.setForeground(Color.WHITE);
    add(b1);
    b2=new JButton("Cancel");
    b2.setBounds(180,140,120,30);
```

```
b2.setFont(new Font("serif",Font.BOLD,15));
  b2.setBackground(Color.BLACK);
  b2.setForeground(Color.WHITE);
  add(b2);
  b2.addActionListener(this);
  getContentPane().setBackground(Color.WHITE);
  setVisible(true);
  setSize(600,300);
  setLocation(600,350);
}
public void actionPerformed(ActionEvent ae){
  if(ae.getSource()==b1){
  try{
    conn c1 = new conn();
    String u = t1.getText();
    String v = t2.getText();
    String q = "select * from login where username=""+u+"" and password=""+v+""";
    ResultSet rs = c1.s.executeQuery(q);
    if(rs.next()){
      new Dashboard().setVisible(true);
      setVisible(false);
    }else{
      JOptionPane.showMessageDialog(null, "Invalid login");
      setVisible(false);
    }
  }catch(Exception e){
    e.printStackTrace();
  }
  }else if(ae.getSource()==b2){
    System.exit(0);
```

```
}
  public static void main(String[] arg){
    new Login();
  }
}
package hotel.management.system;
import java.awt.BorderLayout;
import java.awt.*;
import javax.swing.JFrame;
import javax.swing.JPanel;
import javax.swing.border.EmptyBorder;
import net.proteanit.sql.DbUtils;
import javax.swing.JTable;
import java.sql.*;
import javax.swing.*;
import java.awt.event.ActionListener;
import java.awt.event.ActionEvent;
public class ManagerInfo extends JFrame {
        Connection conn = null;
        private JPanel contentPane;
        private JTable table;
        private JLabel lblNewLabel;
        private JLabel IblJob;
        private JLabel lblName;
        private JLabel lblDepartment;
        public static void main(String[] args) {
                EventQueue.invokeLater(new Runnable() {
                        public void run() {
                                try {
                                        ManagerInfo frame = new ManagerInfo();
                                        frame.setVisible(true);
```

```
} catch (Exception e) {
                               e.printStackTrace();
                       }
               }
       });
}
public void close()
       this.dispose();
}
public ManagerInfo() throws SQLException {
       //conn = Javaconnect.getDBConnection();
       setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
        setBounds(430, 200, 1000, 600);
        contentPane = new JPanel();
       contentPane.setBorder(new EmptyBorder(5, 5, 5, 5));
        setContentPane(contentPane);
       contentPane.setLayout(null);
       table = new JTable();
       table.setBounds(0, 34, 1000, 450);
        contentPane.add(table);
       JButton btnLoadData = new JButton("Load Data");
        btnLoadData.addActionListener(new ActionListener() {
               public void actionPerformed(ActionEvent e) {
                       try{
           conn c = new conn();
                       String displayCustomersql = "select * from Employee where job = 'Manager'";
                       ResultSet rs = c.s.executeQuery(displayCustomersql);
                       table.setModel(DbUtils.resultSetToTableModel(rs));
               }
                       catch(Exception e1){
```

```
e1.printStackTrace();
                      }
              }
      });
       btnLoadData.setBounds(350, 500, 120, 30);
btnLoadData.setBackground(Color.BLACK);
btnLoadData.setForeground(Color.WHITE);
      contentPane.add(btnLoadData);
      JButton btnExit = new JButton("Back");
       btnExit.addActionListener(new ActionListener() {
              public void actionPerformed(ActionEvent e) {
                      new Reception().setVisible(true);
        setVisible(false);
              }
      });
       btnExit.setBounds(510, 500, 120, 30);
btnExit.setBackground(Color.BLACK);
      btnExit.setForeground(Color.WHITE);
      contentPane.add(btnExit);
      lblNewLabel = new JLabel("Name");
      lblNewLabel.setBounds(41, 11, 46, 14);
       contentPane.add(lblNewLabel);
      lblJob = new JLabel("Age");
      lblJob.setBounds(159, 11, 46, 14);
       contentPane.add(lblJob);
      lblName = new JLabel("Gender");
      lblName.setBounds(273, 11, 46, 14);
       contentPane.add(lblName);
      lblDepartment = new JLabel("Job");
       lblDepartment.setBounds(416, 11, 86, 14);
```

```
contentPane.add(lblDepartment);
        JLabel I1 = new JLabel("Salary");
               l1.setBounds(536, 11, 86, 14);
               contentPane.add(I1);
        JLabel I2 = new JLabel("Phone");
               12.setBounds(656, 11, 86, 14);
                contentPane.add(l2);
        JLabel I3 = new JLabel("Aadhar");
               13.setBounds(786, 11, 86, 14);
               contentPane.add(I3);
        JLabel I4 = new JLabel("Gmail");
               I4.setBounds(896, 11, 86, 14);
                contentPane.add(I4);
        getContentPane().setBackground(Color.WHITE);
        }
}
package hotel.management.system;
import java.awt.BorderLayout;
import java.awt.*;
import java.awt.EventQueue;
import javax.swing.border.EmptyBorder;
import java.awt.Font;
import java.awt.Image;
import java.sql.*;
import javax.swing.*;
import java.awt.event.ActionListener;
import java.awt.event.ActionEvent;
public class NewCustomer extends JFrame {
        Connection conn = null;
        PreparedStatement pst = null;
        private JPanel contentPane;
```

```
private HextField t1,t2,t3,t4,t5,t6,
    JComboBox comboBox;
    JRadioButton r1,r2;
    Choice c1;
       public static void main(String[] args) {
               EventQueue.invokeLater(new Runnable() {
                       public void run() {
                               try {
                                      NewCustomer frame = new NewCustomer();
                                      frame.setVisible(true);
                               } catch (Exception e) {
                                      e.printStackTrace();
                               }
                       }
               });
       }
       public NewCustomer() throws SQLException {
        setBounds(530, 200, 850, 550);
               contentPane = new JPanel();
               setContentPane(contentPane);
               contentPane.setLayout(null);
        Imagelcon i1 = new
ImageIcon(ClassLoader.getSystemResource("hotel/management/system/icons/fifth.png"));
        Image i3 = i1.getImage().getScaledInstance(300, 400,Image.SCALE_DEFAULT);
        ImageIcon i2 = new ImageIcon(i3);
        JLabel I1 = new JLabel(i2);
        l1.setBounds(480,10,300,500);
        add(l1);
               JLabel lblName = new JLabel("NEW CUSTOMER FORM");
               lblName.setFont(new Font("Yu Mincho", Font.PLAIN, 20));
               lblName.setBounds(118, 11, 260, 53);
               contentPane.add(lblName);
```

```
JLabel lblId = new JLabel("ID :");
       IblId.setBounds(35, 76, 200, 14);
       contentPane.add(lblId);
comboBox = new JComboBox(new String[] {"Passport", "Aadhar Card", "Voter Id", "Driving license"});
       comboBox.setBounds(271, 73, 150, 20);
       contentPane.add(comboBox);
JLabel I2 = new JLabel("Number :");
       I2.setBounds(35, 111, 200, 14);
       contentPane.add(I2);
t1 = new JTextField();
       t1.setBounds(271, 111, 150, 20);
       contentPane.add(t1);
       t1.setColumns(10);
       JLabel lblName_1 = new JLabel("Name :");
       lblName_1.setBounds(35, 151, 200, 14);
       contentPane.add(lblName_1);
       t2 = new JTextField();
       t2.setBounds(271, 151, 150, 20);
       contentPane.add(t2);
       t2.setColumns(10);
       JLabel lblGender = new JLabel("Gender :");
       lblGender.setBounds(35, 191, 200, 14);
       contentPane.add(lblGender);
r1 = new JRadioButton("Male");
r1.setFont(new Font("Raleway", Font.BOLD, 14));
r1.setBackground(Color.WHITE);
r1.setBounds(271, 191, 80, 12);
add(r1);
r2 = new JRadioButton("Female");
r2.setFont(new Font("Raleway", Font.BOLD, 14));
r2.setBackground(Color.WHITE);
```

```
r2.setBounds(350, 191, 100, 12);
       add(r2);
       JLabel lblCountry = new JLabel("Country :");
       lblCountry.setBounds(35, 231, 200, 14);
       contentPane.add(IblCountry);
       JLabel lblReserveRoomNumber = new JLabel("Allocated Room Number :");
       lblReserveRoomNumber.setBounds(35, 274, 200, 14);
       contentPane.add(lblReserveRoomNumber);
c1 = new Choice();
try{
  conn c = new conn();
  ResultSet rs = c.s.executeQuery("select * from room");
  while(rs.next()){
    c1.add(rs.getString("room_number"));
  }
}catch(Exception e){ }
c1.setBounds(271, 274, 150, 20);
       contentPane.add(c1);
       JLabel lblCheckInStatus = new JLabel("Checked-In :");
       lblCheckInStatus.setBounds(35, 316, 200, 14);
       contentPane.add(lblCheckInStatus);
       JLabel lblDeposite = new JLabel("Deposit :");
       lblDeposite.setBounds(35, 359, 200, 14);
       contentPane.add(lblDeposite);
       t3 = new JTextField();
       t3.setBounds(271, 231, 150, 20);
       contentPane.add(t3);
       t3.setColumns(10);
       t5 = new JTextField();
       t5.setBounds(271, 316, 150, 20);
       contentPane.add(t5);
```

```
t5.setColumns(10);
                t6 = new JTextField();
                t6.setBounds(271, 359, 150, 20);
                contentPane.add(t6);
                t6.setColumns(10);
                JButton btnNewButton = new JButton("Add");
                btnNewButton.addActionListener(new ActionListener() {
                        public void actionPerformed(ActionEvent e) {
               conn c = new conn();
               String radio = null;
               if(r1.isSelected()){
                  radio = "Male";
               }
               else if(r2.isSelected()){
                  radio = "Female";
               }
               String s6 = c1.getSelectedItem();
               try{
                  String s1 = (String)comboBox.getSelectedItem();
                                String s2 = t1.getText();
                                String s3 = t2.getText();
                  String s4 = radio;
                                String s5 = t3.getText();
                                String s7 = t5.getText();
                  String s8 = t6.getText();
                  String q1 = "insert into customer
values(""+s1+"",""+s2+"",""+s3+"",""+s4+"",""+s5+"",""+s6+"",""+s7+"",""+s8+"")";
                  String q2 = "update room set availability = 'Occupied' where room_number = "+s6;
                  c.s.executeUpdate(q1);
                  c.s.executeUpdate(q2);
```

```
JOptionPane.showMessageDialog(null, "Data Inserted Successfully");
         new Reception().setVisible(true);
         setVisible(false);
               }catch(SQLException e1){
                       System.out.println(e1.getMessage());
               }
                       catch(NumberFormatException s){
                               JOptionPane.showMessageDialog(null, "Please enter a valid Number");
               }
               }
       });
       btnNewButton.setBounds(100, 430, 120, 30);
btnNewButton.setBackground(Color.BLACK);
btnNewButton.setForeground(Color.WHITE);
       contentPane.add(btnNewButton);
       JButton btnExit = new JButton("Back");
       btnExit.addActionListener(new ActionListener() {
               public void actionPerformed(ActionEvent e) {
       new Reception().setVisible(true);
       setVisible(false);
               }
       });
       btnExit.setBounds(260, 430, 120, 30);
btnExit.setBackground(Color.BLACK);
btnExit.setForeground(Color.WHITE);
       contentPane.add(btnExit);
getContentPane().setBackground(Color.WHITE);
}
```

}

```
package hotel.management.system;
import java.awt.BorderLayout;
import java.awt.*;
import java.sql.*;
import javax.swing.*;
import javax.swing.border.EmptyBorder;
import net.proteanit.sql.DbUtils;
import java.awt.Font;
import java.awt.event.ActionListener;
import java.awt.event.ActionEvent;
public class PickUp extends JFrame {
        Connection conn = null;
        PreparedStatement pst = null;
        ResultSet rs = null;
        private JPanel contentPane;
        private JTable table;
    Choice c1;
        public static void main(String[] args) {
                EventQueue.invokeLater(new Runnable() {
                        public void run() {
                                try {
                                        PickUp frame = new PickUp();
                                        frame.setVisible(true);
                                } catch (Exception e) {
                                        e.printStackTrace();
                                }
                        }
                });
        }
        public void close()
```

```
{
       this.dispose();
}
public PickUp() throws SQLException {
       //conn = Javaconnect.getDBConnection();
       setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
       setBounds(530, 200, 800, 600);
       contentPane = new JPanel();
        contentPane.setBorder(new EmptyBorder(5, 5, 5, 5));
        setContentPane(contentPane);
        contentPane.setLayout(null);
       JLabel lblPickUpService = new JLabel("Pick Up Service");
       lblPickUpService.setFont(new Font("Tahoma", Font.PLAIN, 20));
       lblPickUpService.setBounds(90, 11, 158, 25);
        contentPane.add(lblPickUpService);
       JLabel lblTypeOfCar = new JLabel("Type of Car");
       lblTypeOfCar.setBounds(32, 97, 89, 14);
       contentPane.add(lblTypeOfCar);
c1 = new Choice();
try{
  conn c = new conn();
  ResultSet rs = c.s.executeQuery("select * from driver");
  while(rs.next()){
     c1.add(rs.getString("brand"));
  }
}catch(Exception e){ }
c1.setBounds(123, 94, 150, 25);
       contentPane.add(c1);
       JLabel lblInfo = new JLabel("Name");
       IblInfo.setBounds(24, 208, 46, 14);
        contentPane.add(lblInfo);
```

```
JButton btnRegister = new JButton("Display");
       btnRegister.addActionListener(new ActionListener() {
               public void actionPerformed(ActionEvent arg0) {
                       String SQL = "select * from driver where brand = ""+c1.getSelectedItem()+"";
                       try{
                               conn c = new conn();
                               rs = c.s.executeQuery(SQL);
                               table.setModel(DbUtils.resultSetToTableModel(rs));
                       }catch (SQLException ss)
                       {
                               ss.printStackTrace();
                       }
               }
       });
       btnRegister.setBounds(200, 500, 120, 30);
btnRegister.setBackground(Color.BLACK);
btnRegister.setForeground(Color.WHITE);
       contentPane.add(btnRegister);
       JButton btnExit = new JButton("Back");
       btnExit.addActionListener(new ActionListener() {
               public void actionPerformed(ActionEvent arg0) {
                       new Reception().setVisible(true);
        setVisible(false);
               }
       });
       btnExit.setBounds(420, 500, 120, 30);
btnExit.setBackground(Color.BLACK);
btnExit.setForeground(Color.WHITE);
       contentPane.add(btnExit);
       table = new JTable();
       table.setBounds(0, 233, 800, 250);
```

```
contentPane.add(table);
               JLabel lblNewLabel = new JLabel("Age");
               lblNewLabel.setBounds(165, 208, 46, 14);
                contentPane.add(lblNewLabel);
               JLabel lblGender = new JLabel("Gender");
               lblGender.setBounds(264, 208, 46, 14);
                contentPane.add(lblGender);
               JLabel lblTypeOfDriver = new JLabel("Company");
               IblTypeOfDriver.setBounds(366, 208, 80, 14);
                contentPane.add(lblTypeOfDriver);
               JLabel lblDateOfThe = new JLabel("Brand");
               lblDateOfThe.setBounds(486, 208, 105, 14);
                contentPane.add(lbIDateOfThe);
               JLabel lblAirport = new JLabel("Available");
               lblAirport.setBounds(600, 208, 86, 14);
               contentPane.add(lblAirport);
               JLabel lblAvailable = new JLabel("Location");
               lblAvailable.setBounds(700, 208, 73, 14);
               contentPane.add(lblAvailable);
        getContentPane().setBackground(Color.WHITE);
       }
}
package hotel.management.system;
import javax.swing.*;
import java.sql.*;
import java.awt.event.*;
import java.awt.*;
public class Reception extends JFrame {
        private JPanel contentPane;
        public static void main(String[] args) {
                new Reception();
```

```
}
       public Reception(){
        setBounds(530, 200, 850, 570);
               contentPane = new JPanel();
               setContentPane(contentPane);
               contentPane.setLayout(null);
        Imagelcon i1 = new
ImageIcon(ClassLoader.getSystemResource("hotel/management/system/icons/fourth.jpg"));
        Image i3 = i1.getImage().getScaledInstance(500, 500,Image.SCALE_DEFAULT);
        Imagelcon i2 = new Imagelcon(i3);
        JLabel l1 = new JLabel(i2);
        l1.setBounds(250,30,500,470);
        add(l1);
               JButton btnNewCustomerForm = new JButton("New Customer Form");
               btnNewCustomerForm.addActionListener(new ActionListener() {
                      public void actionPerformed(ActionEvent e) {
                              try{
                              NewCustomer custom = new NewCustomer();
                              custom.setVisible(true);
                setVisible(false);
                      }catch(Exception e1){
                              e1.printStackTrace();
                      }
                      }
               });
               btnNewCustomerForm.setBounds(10, 30, 200, 30);
        btnNewCustomerForm.setBackground(Color.BLACK);
        btnNewCustomerForm.setForeground(Color.WHITE);
               contentPane.add(btnNewCustomerForm);
               JButton btnNewButton = new JButton("Room");
```

```
btnNewButton.addActionListener(new ActionListener() {
              public void actionPerformed(ActionEvent arg0) {
                      try{
                      Room room = new Room();
                      room.setVisible(true);
        setVisible(false);
                      catch(Exception e){
                              e.printStackTrace();
                      }
              }
      });
       btnNewButton.setBounds(10, 70, 200, 30);
btnNewButton.setBackground(Color.BLACK);
btnNewButton.setForeground(Color.WHITE);
      contentPane.add(btnNewButton);
      JButton btnNewButton_1 = new JButton("Department");
       btnNewButton_1.addActionListener(new ActionListener() {
              public void actionPerformed(ActionEvent e) {
                      try{
                              Department dept = new Department();
                              dept.setVisible(true);
                              setVisible(false);
                      }
                      catch (Exception e1){
                              e1.printStackTrace();
                      }
              }
      });
       btnNewButton_1.setBounds(10, 110, 200, 30);
btnNewButton_1.setBackground(Color.BLACK);
```

```
btnNewButton_1.setForeground(Color.WHITE);
      contentPane.add(btnNewButton_1);
      JButton btnNewButton 2 = new JButton("All Employee Info");
      btnNewButton 2.addActionListener(new ActionListener() {
              public void actionPerformed(ActionEvent e) {
                      try{
                              Employee em = new Employee();
                             em.setVisible(true);
                             setVisible(false);
                      }
                      catch (Exception e1){
                             e1.printStackTrace();
                      }
              }
      });
      btnNewButton 2.setBounds(10, 150, 200, 30);
btnNewButton_2.setBackground(Color.BLACK);
btnNewButton_2.setForeground(Color.WHITE);
      contentPane.add(btnNewButton_2);
      JButton btnNewButton_3 = new JButton("Customer Info");
      btnNewButton_3.addActionListener(new ActionListener() {
              public void actionPerformed(ActionEvent e) {
                      try{
                             CustomerInfo customer = new CustomerInfo();
                             customer.setVisible(true);
                             setVisible(false);
                      }
                      catch (Exception e1){
                             e1.printStackTrace();
                      }
```

```
}
      });
      btnNewButton_3.setBounds(10, 190, 200, 30);
btnNewButton_3.setBackground(Color.BLACK);
btnNewButton_3.setForeground(Color.WHITE);
      contentPane.add(btnNewButton_3);
      JButton btnManagerInfo = new JButton("Manager Info");
      btnManagerInfo.addActionListener(new ActionListener() {
              public void actionPerformed(ActionEvent e) {
                      try{
                      ManagerInfo mana = new ManagerInfo();
                      mana.setVisible(true);
        setVisible(false);
                      }
                      catch (Exception e1){
                             e1.printStackTrace();
                      }
              }
      });
      btnManagerInfo.setBounds(10, 230, 200, 30);
btnManagerInfo.setBackground(Color.BLACK);
btnManagerInfo.setForeground(Color.WHITE);
      contentPane.add(btnManagerInfo);
      JButton btnNewButton_4 = new JButton("Check Out");
      btnNewButton_4.addActionListener(new ActionListener() {
              public void actionPerformed(ActionEvent e) {
                      CheckOut check;
                      try {
                             check = new CheckOut();
                             check.setVisible(true);
            setVisible(false);
```

```
e1.printStackTrace();
                     }
              }
      });
      btnNewButton_4.setBounds(10, 270, 200, 30);
btnNewButton_4.setBackground(Color.BLACK);
btnNewButton_4.setForeground(Color.WHITE);
      contentPane.add(btnNewButton_4);
      JButton btnNewButton_5 = new JButton("Update Check Status");
      btnNewButton_5.addActionListener(new ActionListener() {
              public void actionPerformed(ActionEvent e) {
                     try{
                      UpdateCheck update = new UpdateCheck();
                      update.setVisible(true);
        setVisible(false);
                     }
                     catch(Exception e1){
                             e1.printStackTrace();
                     }
              }
      });
      btnNewButton_5.setBounds(10, 310, 200, 30);
btnNewButton_5.setBackground(Color.BLACK);
btnNewButton_5.setForeground(Color.WHITE);
      contentPane.add(btnNewButton_5);
      JButton btnNewButton_6 = new JButton("Update Room Status");
      btnNewButton_6.addActionListener(new ActionListener() {
              public void actionPerformed(ActionEvent e) {
                     try{
                             UpdateRoom room = new UpdateRoom();
```

```
setVisible(false);
                      }catch(Exception s)
                      {
                              s.printStackTrace();
              }
      });
       btnNewButton_6.setBounds(10, 350, 200, 30);
btnNewButton_6.setBackground(Color.BLACK);
btnNewButton_6.setForeground(Color.WHITE);
      contentPane.add(btnNewButton_6);
      JButton btnPickUpSerice = new JButton("Pick up Service");
       btnPickUpSerice.addActionListener(new ActionListener() {
              public void actionPerformed(ActionEvent arg0) {
                      try{
                      PickUp pick = new PickUp();
                      pick.setVisible(true);
        setVisible(false);
                      catch(Exception e){
                              e.printStackTrace();
                      }
              }
      });
      btnPickUpSerice.setBounds(10, 390, 200, 30);
btnPickUpSerice.setBackground(Color.BLACK);
btnPickUpSerice.setForeground(Color.WHITE);
      contentPane.add(btnPickUpSerice);
      JButton btnSearchRoom = new JButton("Search Room");
       btnSearchRoom.addActionListener(new ActionListener() {
```

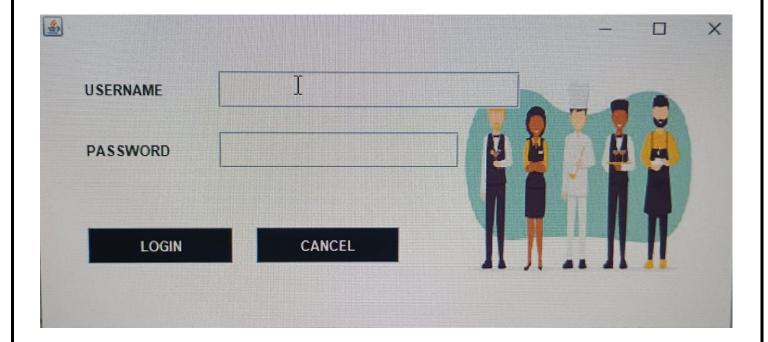
```
try {
                      SearchRoom search = new SearchRoom();
                      search.setVisible(true);
        setVisible(false);
                      catch (Exception ss){
                              ss.printStackTrace();
                      }
              }
      });
      btnSearchRoom.setBounds(10, 430, 200, 30);
btnSearchRoom.setBackground(Color.BLACK);
btnSearchRoom.setForeground(Color.WHITE);
       contentPane.add(btnSearchRoom);
      JButton btnNewButton_7 = new JButton("Log Out");
       btnNewButton_7.addActionListener(new ActionListener() {
              public void actionPerformed(ActionEvent ae) {
                      try {
          new Login().setVisible(true);
          setVisible(false);
                      } catch (Exception e) {
                              e.printStackTrace();
                      }
              }
      });
      btnNewButton_7.setBounds(10, 470, 200, 30);
btnNewButton_7.setBackground(Color.BLACK);
btnNewButton_7.setForeground(Color.WHITE);
       contentPane.add(btnNewButton_7);
getContentPane().setBackground(Color.WHITE);
```

```
setVisible(true);
      }
}
SQL QUIRES:-
create table employee(name varchar(25),age varchar(10),gender varchar(15),job
varchar(30), salary varchar(15), phone varchar(15), email varchar(40), aadhar varchar(20));
select*from login;
describe employee
select*from employee;
select*from room
create table driver(name varchar(20), age varchar(10), gender varchar(15), company
varchar(15), branch varchar(20), available varchar(20), location varchar(40));
create table customer(document varchar(20), number varchar(30),name
varchar(30),gender varchar(15),country varchar(15),room varchar(20),checkintime
varchar(40),deposit varchar(20));
select*from customer
describe room
select*from room;
create table department(department varchar(30), budget varchar(30));
select*from employee
insert into department values('Front Office','50000');
```

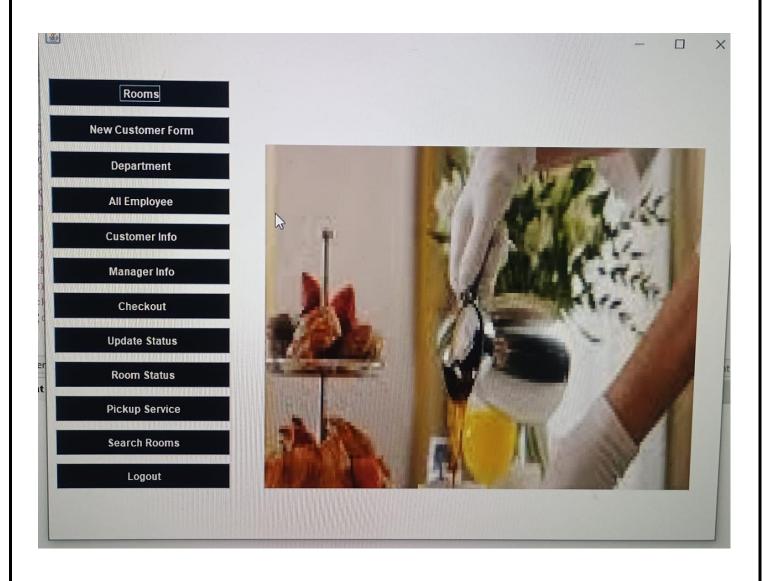
insert into department values('FHouseKeeping','40000');
insert into department values('Food and Beverage','30000');
insert into department values('Kitchen or Food Production','80000');
insert into department values('Security','35000');
select*from driver

# **OUTPUT:-**

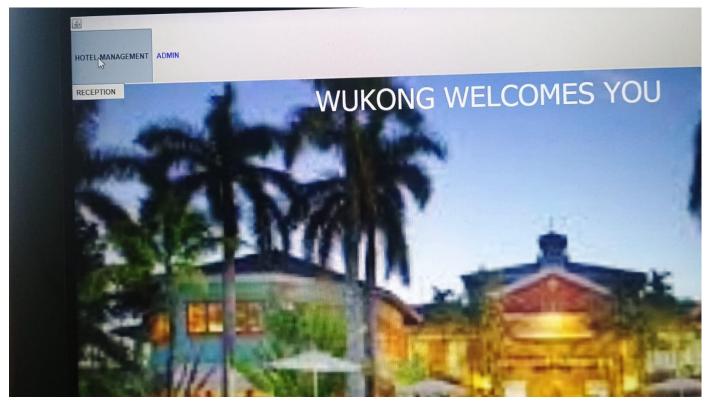
## **LOGIN PAGE:-**



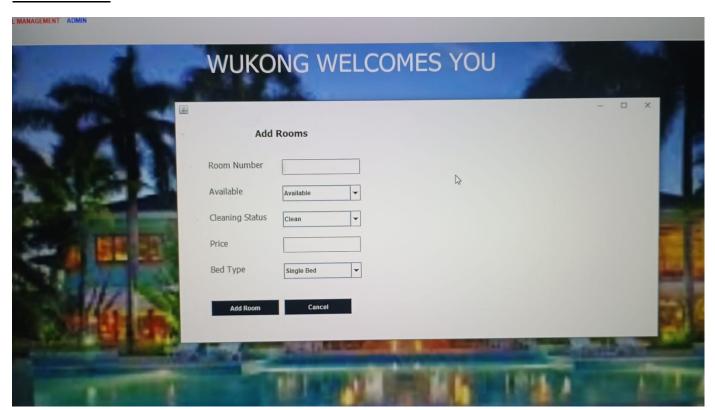
# **RECEPTION:-**



# <u>IMAGE - 1:</u>



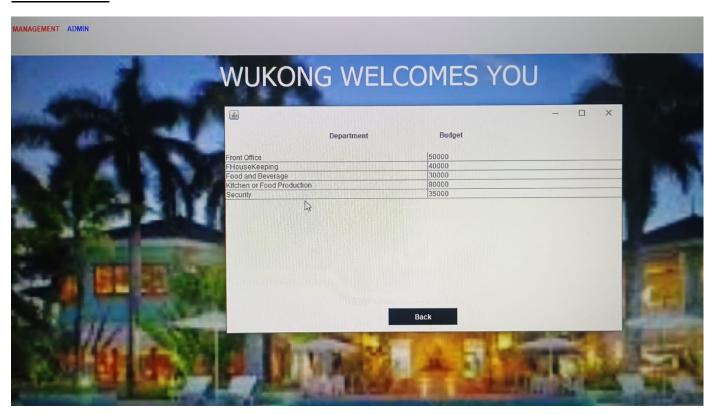
## <u>IMAGE – 2:</u>



# <u>IMAGE – 3:</u>



## <u>IMAGE – 4:</u>



# JAVA PROJECT MINIPROJECT HOTAL MANAGEMENT SYSTEM BY SRI BALAJI P(231501160) SKANDHA T.R(231501156)

COLLEGE NAME: RAJALAKSHMI ENGINEERING COLLEGE

**DEPARTMENT**: AIML-C

SUBJECT : JAVA OOP

SUBJECT CODE : CS23333

### **ABSTRACT:-**

This project focuses on the development of a **Hotel Management System** using **SQL and Java**, designed to streamline and simplify essential operational tasks. The system primarily incorporates the following functionalities:-

- 1. **User Authentication and Security**: A robust login module ensures secure access for authorized users, safeguarding sensitive hotel data.
- 2. **Data Management Operations**: Core functionalities include:
  - Insertion: Adding new customer records, room details, and booking information to the database.
  - Updating: Modifying existing data, such as room availability, customer details, or booking changes.
  - Deletion: Removing outdated or erroneous records efficiently while maintaining database integrity.
  - Retrieval: Fetching relevant data quickly for reporting and operational needs.
- 3. **Database Integration**: The system utilizes **SQL** for designing and managing relational databases, ensuring seamless data storage, retrieval, and manipulation.
- 4. **Scalability**: The architecture is built to accommodate future enhancements, such as room reservation systems, billing modules, and customer feedback management.
- 5. **Java-based Implementation**: Java is leveraged to handle the application's backend logic and user interface design, enabling a smooth interaction between the user and the database.

This project demonstrates the practical application of SQL and Java in creating a foundational hotel management system, offering a stepping stone toward a more comprehensive and fully automated solution.

### **JAVA PROGRAM:-**

```
import java.awt.*;
import javax.swing.*;
import javax.swing.border.*;
import java.awt.event.*;
import java.sql.*;
import java.util.*;
public class AddDrivers extends JFrame implements ActionListener{
  private JPanel contentPane;
  private JTextField t1,t2,t3,t4, t5;
  private JComboBox comboBox, comboBox_1;
  JButton b1,b2;
  Choice c1;
  public static void main(String[] args) {
    new AddDrivers().setVisible(true);
  }
  public AddDrivers() {
    setBounds(450, 200, 1000, 500);
       contentPane = new JPanel();
       setContentPane(contentPane);
       contentPane.setLayout(null);
    ImageIcon i1 = new ImageIcon(ClassLoader.getSystemResource("hotel/management/system/icons/eleven.jpg"));
        Image i3 = i1.getImage().getScaledInstance(500, 300,Image.SCALE_DEFAULT);
        Imagelcon i2 = new Imagelcon(i3);
        JLabel | 15 = new JLabel(i2);
```

```
l15.setBounds(400,30,500,370);
    add(I15);
JLabel I10 = new JLabel("Add Drivers");
l10.setFont(new Font("Tahoma", Font.BOLD, 18));
   I10.setBounds(194, 10, 120, 22);
   contentPane.add(I10);
   JLabel | 1 = new JLabel("Name");
   l1.setForeground(new Color(25, 25, 112));
   I1.setFont(new Font("Tahoma", Font.BOLD, 14));
   l1.setBounds(64, 70, 102, 22);
   contentPane.add(l1);
t1 = new JTextField();
   t1.setBounds(174, 70, 156, 20);
   contentPane.add(t1);
   JLabel I2 = new JLabel("Age");
   12.setForeground(new Color(25, 25, 112));
   12.setFont(new Font("Tahoma", Font.BOLD, 14));
   l2.setBounds(64, 110, 102, 22);
   contentPane.add(I2);
t2 = new JTextField();
   t2.setBounds(174, 110, 156, 20);
   contentPane.add(t2);
   JLabel I3 = new JLabel("Gender");
   13.setForeground(new Color(25, 25, 112));
   13.setFont(new Font("Tahoma", Font.BOLD, 14));
   13.setBounds(64, 150, 102, 22);
   contentPane.add(I3);
```

```
comboBox = new JComboBox(new String[] { "Male", "Female" });
   comboBox.setBounds(176, 150, 154, 20);
   contentPane.add(comboBox);
   JLabel I4 = new JLabel("Car Company");
   14.setForeground(new Color(25, 25, 112));
   14.setFont(new Font("Tahoma", Font.BOLD, 14));
   I4.setBounds(64, 190, 102, 22);
   contentPane.add(I4);
t3 = new JTextField();
   t3.setBounds(174, 190, 156, 20);
   contentPane.add(t3);
JLabel I5 = new JLabel("Car Brand");
   I5.setForeground(new Color(25, 25, 112));
   I5.setFont(new Font("Tahoma", Font.BOLD, 14));
   I5.setBounds(64, 230, 102, 22);
   contentPane.add(I5);
t4 = new JTextField();
   t4.setBounds(174, 230, 156, 20);
   contentPane.add(t4);
JLabel I6 = new JLabel("Available");
   l6.setForeground(new Color(25, 25, 112));
   l6.setFont(new Font("Tahoma", Font.BOLD, 14));
   I6.setBounds(64, 270, 102, 22);
   contentPane.add(I6);
```

```
comboBox_1 = new JComboBox(new String[] { "Yes", "No" });
   comboBox_1.setBounds(176, 270, 154, 20);
   contentPane.add(comboBox_1);
JLabel I7 = new JLabel("Location");
   I7.setForeground(new Color(25, 25, 112));
   17.setFont(new Font("Tahoma", Font.BOLD, 14));
   17.setBounds(64, 310, 102, 22);
   contentPane.add(I7);
t5 = new JTextField();
   t5.setBounds(174, 310, 156, 20);
   contentPane.add(t5);
   b1 = new JButton("Add");
   b1.addActionListener(this);
   b1.setBounds(64, 380, 111, 33);
b1.setBackground(Color.BLACK);
b1.setForeground(Color.WHITE);
   contentPane.add(b1);
   b2 = new JButton("Back");
   b2.addActionListener(this);
   b2.setBounds(198, 380, 111, 33);
b2.setBackground(Color.BLACK);
b2.setForeground(Color.WHITE);
   contentPane.add(b2);
contentPane.setBackground(Color.WHITE);
```

}

```
public void actionPerformed(ActionEvent ae){
   try{
     if(ae.getSource() == b1){
       try{
       conn c = new conn();
       String name = t1.getText();
       String age = t2.getText();
       String gender = (String)comboBox.getSelectedItem();
       String company = t3.getText();
       String brand = t4.getText();
       String available = (String)comboBox_1.getSelectedItem();
       String location = t5.getText();
       String str = "INSERT INTO driver values( ""+name+"', ""+age+"', ""+gender+"', ""+company+"', ""+brand+"', ""+available
              c.s.executeUpdate(str);
              JOptionPane.showMessageDialog(null, "Driver Successfully Added");
       this.setVisible(false);
       }catch(Exception ee){
         System.out.println(ee);
       }
     }
     else if(ae.getSource() == b2){
       this.setVisible(false);
     }
   }catch(Exception eee){
```

```
import java.awt.EventQueue;
import java.awt.*;
import java.awt.event.*;
import java.sql.*;
import javax.swing.*;
public class AddEmployee extends JFrame{ //Third Frame
       JTextField textField_1,textField_2,textField_3,textField_4,textField_5,textField_6;
    JComboBox c1;
    public AddEmployee(){
      getContentPane().setForeground(Color.BLUE);
      getContentPane().setBackground(Color.WHITE);
      setTitle("ADD EMPLOYEE DETAILS");
      setDefaultCloseOperation(JFrame.HIDE_ON_CLOSE);
      setSize(778,486);
      getContentPane().setLayout(null);
      JLabel Passportno = new JLabel("NAME");
      Passportno.setFont(new Font("Tahoma", Font.PLAIN, 17));
      Passportno.setBounds(60, 30, 150, 27);
      add(Passportno);
```

```
<del>textField = new JTextField(),</del>
textField.setBounds(200, 30, 150, 27);
add(textField);
JButton Next = new JButton("SAVE");
Next.setBounds(200, 420, 150, 30);
Next.setBackground(Color.BLACK);
Next.setForeground(Color.WHITE);
add(Next);
JLabel Pnrno = new JLabel("AGE");
Pnrno.setFont(new Font("Tahoma", Font.PLAIN, 17));
Pnrno.setBounds(60, 80, 150, 27);
add(Pnrno);
textField_1 = new JTextField();
textField_1.setBounds(200, 80, 150, 27);
add(textField_1);
JLabel Gender = new JLabel("GENDER");
Gender.setFont(new Font("Tahoma", Font.PLAIN, 17));
Gender.setBounds(60, 120, 150, 27);
add(Gender);
JRadioButton NewRadioButton = new JRadioButton("MALE");
NewRadioButton.setBackground(Color.WHITE);
NewRadioButton.setBounds(200, 120, 70, 27);
add(NewRadioButton);
JRadioButton Female = new JRadioButton("FEMALE");
Female.setBackground(Color.WHITE);
Female.setBounds(280, 120, 70, 27);
```

```
JLabel Address = new JLabel("JOB");
      Address.setFont(new Font("Tahoma", Font.PLAIN, 17));
      Address.setBounds(60, 170, 150, 27);
      add(Address);
      String course[] = {"Front Desk Clerks","Porters","Housekeeping","Kitchen Staff","Room
Service", "Waiter/Waitress", "Manager", "Accountant", "Chef"};
      c1 = new JComboBox(course);
      c1.setBackground(Color.WHITE);
      c1.setBounds(200,170,150,30);
      add(c1);
      JLabel Nationality = new JLabel("SALARY");
      Nationality.setFont(new Font("Tahoma", Font.PLAIN, 17));
      Nationality.setBounds(60, 220, 150, 27);
      add(Nationality);
      textField_3 = new JTextField();
      textField_3.setBounds(200, 220, 150, 27);
      add(textField_3);
      JLabel Name = new JLabel("PHONE");
      Name.setFont(new Font("Tahoma", Font.PLAIN, 17));
      Name.setBounds(60, 270, 150, 27);
      add(Name);
      textField_4 = new JTextField();
      textField_4.setBounds(200, 270, 150, 27);
      add(textField_4);
      JLabel Phno = new JLabel("AADHAR");
```

```
Phno.setFont(new Font("Tahoma", Font.PLAIN, 17)),
      Phno.setBounds(60, 320, 150, 27);
      add(Phno);
      textField_5 = new JTextField();
      textField_5.setBounds(200, 320, 150, 27);
      add(textField_5);
      JLabel email = new JLabel("EMAIL");
      email.setFont(new Font("Tahoma", Font.PLAIN, 17));
      email.setBounds(60, 370, 150, 27);
      add(email);
      textField_6 = new JTextField();
      textField_6.setBounds(200, 370, 150, 27);
      add(textField_6);
      setVisible(true);
      JLabel AddPassengers = new JLabel("ADD EMPLOYEE DETAILS");
      AddPassengers.setForeground(Color.BLUE);
      AddPassengers.setFont(new Font("Tahoma", Font.PLAIN, 31));
      AddPassengers.setBounds(450, 24, 442, 35);
      add(AddPassengers);
      Imagelcon i1 = new
ImageIcon(ClassLoader.getSystemResource("hotel/management/system/icons/tenth.jpg"));
      Image i3 = i1.getImage().getScaledInstance(500, 500,Image.SCALE_DEFAULT);
      ImageIcon i2 = new ImageIcon(i3);
      JLabel image = new JLabel(i2);
      image.setBounds(410,80,480,410);
      add(image);
      Next.addActionListener(new ActionListener(){
        public void actionPerformed(ActionEvent ae){
```

```
String name = textField.getText(),
           String age = textField_1.getText();
           String salary = textField_3.getText();
          String phone = textField_4.getText();
           String aadhar = textField_5.getText();
           String email = textField_6.getText();
           String gender = null;
           if(NewRadioButton.isSelected()){
             gender = "male";
           }else if(Female.isSelected()){
             gender = "female";
           }
           String s6 = (String)c1.getSelectedItem();
           try {
             conn c = new conn();
             String str = "INSERT INTO employee values( ""+name+"', ""+age+"', ""+gender+"', ""+s6+"', ""+salary+"',
""+phone+"",'"+aadhar+"", ""+email+"")";
             c.s.executeUpdate(str);
             JOptionPane.showMessageDialog(null,"Employee Added");
             setVisible(false);
           } catch (Exception e) {
             e.printStackTrace();
          }
                }
      });
      setSize(900,600);
      setVisible(true);
      setLocation(530,200);
        }
  public static void main(String[] args){
```

```
<del>new AddEmployee(),</del>
  }
}
import java.awt.*;
import javax.swing.*;
import javax.swing.border.*;
import java.awt.event.*;
import java.sql.*;
import java.util.*;
public class AddRoom extends JFrame implements ActionListener{
  private JPanel contentPane;
  private JTextField t1,t2,t3,t4;
  private JComboBox comboBox, comboBox_1, comboBox_2, comboBox_3;
  JButton b1,b2;
  Choice c1;
  public static void main(String[] args) {
    new AddRoom().setVisible(true);
  }
  public AddRoom() {
    setBounds(450, 200, 1000, 450);
        contentPane = new JPanel();
        setContentPane(contentPane);
       contentPane.setLayout(null);
    ImageIcon i1 = new
ImageIcon(ClassLoader.getSystemResource("hotel/management/system/icons/twelve.jpg"));
        Image i3 = i1.getImage().getScaledInstance(500, 300,Image.SCALE_DEFAULT);
        Imagelcon i2 = new Imagelcon(i3);
        JLabel | 15 = new JLabel(i2);
        l15.setBounds(400,30,500,370);
        add(I15);
    JLabel I10 = new JLabel("Add Rooms");
```

```
<del>l10.setFont(new Font("Tahoma", Font.BOLD, 18)),</del>
   l10.setBounds(194, 10, 120, 22);
   contentPane.add(I10);
   JLabel I1 = new JLabel("Room Number");
   l1.setForeground(new Color(25, 25, 112));
   l1.setFont(new Font("Tahoma", Font.BOLD, 14));
   11.setBounds(64, 70, 102, 22);
   contentPane.add(l1);
t4 = new JTextField();
   t4.setBounds(174, 70, 156, 20);
   contentPane.add(t4);
   JLabel I2 = new JLabel("Availability");
   12.setForeground(new Color(25, 25, 112));
   12.setFont(new Font("Tahoma", Font.BOLD, 14));
   I2.setBounds(64, 110, 102, 22);
   contentPane.add(I2);
comboBox = new JComboBox(new String[] { "Available", "Occupied" });
   comboBox.setBounds(176, 110, 154, 20);
   contentPane.add(comboBox);
   JLabel I3 = new JLabel("Cleaning Status");
   13.setForeground(new Color(25, 25, 112));
   13.setFont(new Font("Tahoma", Font.BOLD, 14));
   13.setBounds(64, 150, 102, 22);
   contentPane.add(I3)
comboBox_2 = new JComboBox(new String[] { "Cleaned", "Dirty" });
   comboBox_2.setBounds(176, 150, 154, 20);
   contentPane.add(comboBox 2);
   JLabel I4 = new JLabel("Price");
   14.setForeground(new Color(25, 25, 112));
   14.setFont(new Font("Tahoma", Font.BOLD, 14));
   I4.setBounds(64, 190, 102, 22);
```

```
t2 = new JTextField();
     t2.setBounds(174, 190, 156, 20);
     contentPane.add(t2);
  JLabel I5 = new JLabel("Bed Type");
     15.setForeground(new Color(25, 25, 112));
     15.setFont(new Font("Tahoma", Font.BOLD, 14));
     I5.setBounds(64, 230, 102, 22);
     contentPane.add(I5);
  comboBox_3 = new JComboBox(new String[] { "Single Bed", "Double Bed"});
     comboBox_3.setBounds(176, 230, 154, 20);
     contentPane.add(comboBox_3)
     b1 = new JButton("Add");
     b1.addActionListener(this);
     b1.setBounds(64, 321, 111, 33);
  b1.setBackground(Color.BLACK);
  b1.setForeground(Color.WHITE);
     contentPane.add(b1);
     b2 = new JButton("Back");
     b2.addActionListener(this);
     b2.setBounds(198, 321, 111, 33);
  b2.setBackground(Color.BLACK);
  b2.setForeground(Color.WHITE);
     contentPane.add(b2);
  contentPane.setBackground(Color.WHITE);
}
```

public void actionPerformed(ActionEvent ae){

try{

```
if(ae.getSource() == b1){
        try{
        conn c = new conn();
        String room = t4.getText();
        String available = (String)comboBox.getSelectedItem();
        String status = (String)comboBox_2.getSelectedItem();
        String price = t2.getText();
        String type = (String)comboBox_3.getSelectedItem();
        String str = "INSERT INTO room values( ""+room+"', ""+available+"', ""+status+"', ""+price+"', ""+type+"")";
                c.s.executeUpdate(str);
               JOptionPane.showMessageDialog(null, "Room Successfully Added");
        this.setVisible(false);
        }catch(Exception ee){
           System.out.println(ee);
        }
      }
      else if(ae.getSource() == b2){
        this.setVisible(false);
      }
    }catch(Exception eee){
    }
  }
package hotel.management.system;
import java.awt.BorderLayout;
import java.awt.*;
import java.awt.EventQueue;
import java.sql.*;
import javax.swing.*;
import javax.swing.border.EmptyBorder;
```

```
<del>import java.awt.Font,</del>
import java.awt.event.*;
import java.awt.event.ActionEvent;
public class CheckOut extends JFrame{
        Connection conn = null;
        PreparedStatement pst = null;
        private JPanel contentPane;
        private JTextField t1;
    Choice c1;
        public static void main(String[] args) {
                EventQueue.invokeLater(new Runnable() {
                        public void run() {
                                try {
                                        CheckOut frame = new CheckOut();
                                        frame.setVisible(true);
                                } catch (Exception e) {
                                        e.printStackTrace();
                                }
                        }
                });
        }
        public void close(){
                this.dispose();
        }
        public CheckOut() throws SQLException {
                //conn = Javaconnect.getDBConnection();
                setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
                setBounds(530, 200, 800, 294);
                contentPane = new JPanel();
                contentPane.setBorder(new EmptyBorder(5, 5, 5, 5));
                setContentPane(contentPane);
```

contentPane.setLayout(null)

```
ImageIcon i1 = new ImageIcon(ClassLoader.getSystemResource("hotel/management/system/icons/sixth.jpg"));
        Image i3 = i1.getImage().getScaledInstance(400, 225,Image.SCALE_DEFAULT);
        ImageIcon i2 = new ImageIcon(i3);
        JLabel | 1 = new JLabel(i2);
        l1.setBounds(300,0,500,225);
        add(l1);
               JLabel lblCheckOut = new JLabel("Check Out ");
               lblCheckOut.setFont(new Font("Tahoma", Font.PLAIN, 20));
               lblCheckOut.setBounds(70, 11, 140, 35);
               contentPane.add(lblCheckOut);
               JLabel lblName = new JLabel("Number :");
               IblName.setBounds(20, 85, 80, 14);
               contentPane.add(lblName);
        c1 = new Choice();
        try{
          conn c = new conn();
          ResultSet rs = c.s.executeQuery("select * from customer");
          while(rs.next()){
            c1.add(rs.getString("number"));
          }
        }catch(Exception e){ }
        c1.setBounds(130, 82, 150, 20);
               contentPane.add(c1);
        Imagelcon i4 = new
ImageIcon(ClassLoader.getSystemResource("hotel/management/system/icons/tick.png"));
        Image i5 = i4.getImage().getScaledInstance(20, 20,Image.SCALE_DEFAULT);
        Imagelcon i6 = new Imagelcon(i5);
```

```
<del>JButton I2 – new JButton(i6),</del>
l2.setBounds(290,82,20,20);
add(I2);
12.addActionListener(new ActionListener(){
  public void actionPerformed(ActionEvent ae){
    System.out.println("Hi");
    try{
      conn c = new conn();
      String number = c1.getSelectedItem();
      ResultSet rs = c.s.executeQuery("select * from customer where number = "+number);
      if(rs.next()){
        System.out.println("clicked");
        t1.setText(rs.getString("room_number"));
      }
    }catch(Exception e){ }
  }
});
       JLabel lblRoomNumber = new JLabel("Room Number:");
       lblRoomNumber.setBounds(20, 132, 86, 20);
       contentPane.add(lblRoomNumber);
       t1 = new JTextField();
t1.setBounds(130, 132, 150, 20);
       contentPane.add(t1);
       JButton btnCheckOut = new JButton("Check Out");
       btnCheckOut.addActionListener(new ActionListener() {
               public void actionPerformed(ActionEvent e) {
        String id = c1.getSelectedItem();
        String s1 = t1.getText();
```

```
<del>String deleteSQL = "Delete from customer where number = "</del>
        String q2 = "update room set availability = 'Available' where room_number = "+s1;
                      conn c = new conn();
              try{
                      c.s.executeUpdate(deleteSQL);
                      c.s.executeUpdate(q2);
                      JOptionPane.showMessageDialog(null, "Check Out Successful");
                       new Reception().setVisible(true);
        setVisible(false);
              }catch(SQLException e1){
                      System.out.println(e1.getMessage());
              }
      });
      btnCheckOut.setBounds(50, 200, 100, 25);
btnCheckOut.setBackground(Color.BLACK);
btnCheckOut.setForeground(Color.WHITE);
      contentPane.add(btnCheckOut);
      JButton btnExit = new JButton("Back");
       btnExit.addActionListener(new ActionListener() {
              public void actionPerformed(ActionEvent e) {
                      new Reception().setVisible(true);
        setVisible(false);
              }
      });
      btnExit.setBounds(160, 200, 100, 25);
btnExit.setBackground(Color.BLACK);
btnExit.setForeground(Color.WHITE);
      contentPane.add(btnExit);
```

```
getContentPane().setBackground(Color.WHITE),
        }
}
package hotel.management.system;
import java.awt.BorderLayout;
import java.awt.*;
import javax.swing.JFrame;
import javax.swing.JPanel;
import javax.swing.border.EmptyBorder;
import net.proteanit.sql.DbUtils;
import java.sql.*;
import javax.swing.*;
import javax.swing.JTable;
import javax.swing.JButton;
import java.awt.event.ActionListener;
import java.awt.event.ActionEvent;
public class CustomerInfo extends JFrame {
        Connection conn = null;
        private JPanel contentPane;
        private JLabel IblId;
        private JLabel lblNewLabel;
        private JLabel lblGender;
        private JTable table;
        private JLabel lblCountry;
        private JLabel lblRoom;
        private JLabel lblStatus;
        private JLabel lblNewLabel_1;
```

```
/**
* Launch the application.
*/
public static void main(String[] args) {
        EventQueue.invokeLater(new Runnable() {
               public void run() {
                       try {
                               CustomerInfo frame = new CustomerInfo();
                               frame.setVisible(true);
                       } catch (Exception e) {
                               e.printStackTrace();
                       }
               }
       });
}
public void close()
       this.dispose();
}
public CustomerInfo() throws SQLException {
       //conn = Javaconnect.getDBConnection();
       setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
       setBounds(530, 200, 900, 600);
       contentPane = new JPanel();
       contentPane.setBorder(new EmptyBorder(5, 5, 5, 5));
       setContentPane(contentPane);
       contentPane.setLayout(null);
       JButton btnExit = new JButton("Back");
        btnExit.addActionListener(new ActionListener() {
               public void actionPerformed(ActionEvent e) {
                       new Reception().setVisible(true);
```

```
}
       });
btnExit.setBounds(450, 510, 120, 30);
btnExit.setBackground(Color.BLACK);
btnExit.setForeground(Color.WHITE);
       contentPane.add(btnExit);
       JButton btnLoadData = new JButton("Load Data");
       btnLoadData.addActionListener(new ActionListener() {
              public void actionPerformed(ActionEvent arg0) {
                      try{
          conn c = new conn();
                      String displayCustomersql = "select * from Customer";
                      ResultSet rs = c.s.executeQuery(displayCustomersql);
                      table.setModel(DbUtils.resultSetToTableModel(rs));
              }
                      catch(Exception e)
                      {
                              e.printStackTrace();
                      }
              }
       });
       btnLoadData.setBounds(300, 510, 120, 30);
btnLoadData.setBackground(Color.BLACK);
btnLoadData.setForeground(Color.WHITE);
       contentPane.add(btnLoadData);
       lblId = new JLabel("ID");
       lblld.setBounds(31, 11, 46, 14);
       contentPane.add(lblId);
JLabel I1 = new JLabel("Number");
```

```
11.setBounds(150, 11, 46, 14),
               contentPane.add(l1);
               lblNewLabel = new JLabel("Name");
               lblNewLabel.setBounds(270, 11, 65, 14);
               contentPane.add(lblNewLabel);
               lblGender = new JLabel("Gender");
               lblGender.setBounds(360, 11, 46, 14);
               contentPane.add(lblGender);
               table = new JTable();
               table.setBounds(0, 40, 900, 450);
               contentPane.add(table);
               lblCountry = new JLabel("Country");
               lblCountry.setBounds(480, 11, 46, 14);
               contentPane.add(lblCountry);
               lblRoom = new JLabel("Room");
               lblRoom.setBounds(600, 11, 46, 14);
               contentPane.add(lblRoom);
               lblStatus = new JLabel("Check-in Status");
               lblStatus.setBounds(680, 11, 100, 14);
               contentPane.add(lblStatus);
               lblNewLabel_1 = new JLabel("Deposit");
               lblNewLabel_1.setBounds(800, 11, 100, 14);
               contentPane.add(lblNewLabel_1);
        getContentPane().setBackground(Color.WHITE);
       }
}
package hotel.management.system;
import java.awt.*;
import javax.swing.*;
import java.awt.event.*;
public class Dashboard extends JFrame{
```

```
<del>public static void main(String[] args) {</del>
  new Dashboard().setVisible(true);
}
public Dashboard() {
  super("HOTEL MANAGEMENT SYSTEM");
  setForeground(Color.CYAN);
  setLayout(null);
  ImageIcon i1 = new ImageIcon(ClassLoader.getSystemResource("hotel/management/system/icons/third.jpg"));
  Image i2 = i1.getImage().getScaledInstance(1950, 1000,Image.SCALE_DEFAULT);
  ImageIcon i3 = new ImageIcon(i2);
     JLabel NewLabel = new JLabel(i3);
     NewLabel.setBounds(0, 0, 1950, 1000);
  add(NewLabel);
  JLabel AirlineManagementSystem = new JLabel("THE TAJ GROUP WELCOMES YOU");
     AirlineManagementSystem.setForeground(Color.WHITE);
  AirlineManagementSystem.setFont(new Font("Tahoma", Font.PLAIN, 46));
     AirlineManagementSystem.setBounds(600, 60, 1000, 85);
     NewLabel.add(AirlineManagementSystem);
  JMenuBar menuBar = new JMenuBar();
     setJMenuBar(menuBar);
  JMenu AirlineSystem = new JMenu("HOTEL MANAGEMENT");
  AirlineSystem.setForeground(Color.BLUE);
     menuBar.add(AirlineSystem);
  JMenuItem FlightDetails = new JMenuItem("RECEPTION");
     AirlineSystem.add(FlightDetails);
     JMenu AirlineSystemHello = new JMenu("ADMIN");
  AirlineSystemHello.setForeground(Color.RED);
     menuBar.add(AirlineSystemHello);
  JMenuItem FlightDetailshello1 = new JMenuItem("ADD EMPLOYEE");
     AirlineSystemHello.add(FlightDetailshello1);
  FlightDetailshello1.addActionListener(new ActionListener(){
```

```
try{
      new AddEmployee().setVisible(true);
  }catch(Exception e ){}
  }
   });
JMenuItem FlightDetailshello2 = new JMenuItem("ADD ROOMS");
   AirlineSystemHello.add(FlightDetailshello2);
FlightDetailshello2.addActionListener(new ActionListener(){
  public void actionPerformed(ActionEvent ae){
    try{
      new AddRoom().setVisible(true);
    }catch(Exception e ){}
  }
   });
   FlightDetails.addActionListener(new ActionListener(){
  public void actionPerformed(ActionEvent ae){
    new Reception();
  }
   });
JMenuItem FlightDetailshello3 = new JMenuItem("ADD DRIVERS");
   AirlineSystemHello.add(FlightDetailshello3);
   FlightDetailshello3.addActionListener(new ActionListener(){
  public void actionPerformed(ActionEvent ae){
    try{
      new AddDrivers().setVisible(true);
    }catch(Exception e ){}
  }
   });
setSize(1950,1090);
   setVisible(true);
```

	getContentPane().setBackground(Co	loi.WHITE),	
	0 (/ 0 (	,,	
}	<b>\</b>		
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,			
}			

```
package hotel.management.system;
import java.awt.BorderLayout;
import java.awt.*;
import javax.swing.JFrame;
import javax.swing.JPanel;
import javax.swing.border.EmptyBorder;
import net.proteanit.sql.DbUtils;
import javax.swing.JTable;
import java.sql.*;
import javax.swing.*;
import java.awt.event.ActionListener;
import java.awt.event.ActionEvent;
public class Department extends JFrame {
       Connection conn = null;
        private JPanel contentPane;
       private JTable table;
        private JLabel lblNewLabel;
       private JLabel lblNewLabel_1;
        public static void main(String[] args) {
                EventQueue.invokeLater(new Runnable() {
                       public void run() {
                               try {
                                       Department frame = new Department();
                                       frame.setVisible(true);
                               } catch (Exception e) {
                                       e.printStackTrace();
                               }
                       }
               });
       public void close()
```

```
this.dispose();
}
public Department() throws SQLException {
       //conn = Javaconnect.getDBConnection();
       setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
       setBounds(600, 200, 700, 500);
       contentPane = new JPanel();
       contentPane.setBorder(new EmptyBorder(5, 5, 5, 5));
       setContentPane(contentPane);
       contentPane.setLayout(null);
       table = new JTable();
       table.setBounds(0, 40, 700, 350);
       contentPane.add(table);
       JButton btnNewButton = new JButton("Load Data");
       btnNewButton.addActionListener(new ActionListener() {
               public void actionPerformed(ActionEvent e) {
                       try{
           conn c = new conn();
                               String displayCustomersql = "select * from Department";
                               ResultSet rs = c.s.executeQuery(displayCustomersql);
                               table.setModel(DbUtils.resultSetToTableModel(rs));
                       }
                       catch (Exception e1){
                               e1.printStackTrace();
                       }
               }
       });
       btnNewButton.setBounds(170, 410, 120, 30);
btnNewButton.setBackground(Color.BLACK);
btnNewButton.setForeground(Color.WHITE);
```

{

```
contentPane.add(btnNewButton);
               JButton btnNewButton_1 = new JButton("Back");
               btnNewButton_1.addActionListener(new ActionListener() {
                       public void actionPerformed(ActionEvent e) {
                                      new Reception().setVisible(true);
                     setVisible(false);
                       }
               });
               btnNewButton_1.setBounds(400, 410, 120, 30);
        btnNewButton_1.setBackground(Color.BLACK);
        btnNewButton_1.setForeground(Color.WHITE);
               contentPane.add(btnNewButton_1);
               lblNewLabel = new JLabel("Department");
               lblNewLabel.setBounds(145, 11, 105, 14);
               contentPane.add(lblNewLabel);
               lblNewLabel_1 = new JLabel("Budget");
               lblNewLabel_1.setBounds(431, 11, 75, 14);
               contentPane.add(lblNewLabel_1);
        getContentPane().setBackground(Color.WHITE);
       }
}
package hotel.management.system;
import java.awt.*;
import javax.swing.*;
import java.awt.event.*;
import java.sql.*;
public class Login extends JFrame implements ActionListener{
  JLabel l1,l2;
  JTextField t1;
  JPasswordField t2;
  JButton b1,b2;
```

```
Login(){
    super("Login");
    setLayout(null);
    I1 = new JLabel("Username");
    I1.setBounds(40,20,100,30);
    add(l1);
    12 = new JLabel("Password");
    12.setBounds(40,70,100,30);
    add(I2);
    t1=new JTextField();
    t1.setBounds(150,20,150,30);
    add(t1);
    t2=new JPasswordField();
    t2.setBounds(150,70,150,30);
    add(t2);
    Imagelcon i1 = new
ImageIcon(ClassLoader.getSystemResource("hotel/management/system/icons/second.jpg"));
    Image i2 = i1.getImage().getScaledInstance(200,200,Image.SCALE_DEFAULT);
    ImageIcon i3 = new ImageIcon(i2);
    JLabel I3 = new JLabel(i3);
    l3.setBounds(350,10,150,150);
    add(I3);
    b1 = new JButton("Login");
    b1.setBounds(40,140,120,30);
    b1.setFont(new Font("serif",Font.BOLD,15));
    b1.addActionListener(this);
    b1.setBackground(Color.BLACK);
    b1.setForeground(Color.WHITE);
    add(b1);
    b2=new JButton("Cancel");
    b2.setBounds(180,140,120,30);
```

```
b2.setFont(new Font("serif",Font.BOLD,15));
  b2.setBackground(Color.BLACK);
  b2.setForeground(Color.WHITE);
  add(b2);
  b2.addActionListener(this);
  getContentPane().setBackground(Color.WHITE);
  setVisible(true);
  setSize(600,300);
  setLocation(600,350);
}
public void actionPerformed(ActionEvent ae){
  if(ae.getSource()==b1){
  try{
    conn c1 = new conn();
    String u = t1.getText();
    String v = t2.getText();
    String q = "select * from login where username=""+u+"" and password=""+v+""";
    ResultSet rs = c1.s.executeQuery(q);
    if(rs.next()){
      new Dashboard().setVisible(true);
      setVisible(false);
    }else{
      JOptionPane.showMessageDialog(null, "Invalid login");
      setVisible(false);
    }
  }catch(Exception e){
    e.printStackTrace();
  }
  }else if(ae.getSource()==b2){
    System.exit(0);
```

```
}
  public static void main(String[] arg){
    new Login();
  }
}
package hotel.management.system;
import java.awt.BorderLayout;
import java.awt.*;
import javax.swing.JFrame;
import javax.swing.JPanel;
import javax.swing.border.EmptyBorder;
import net.proteanit.sql.DbUtils;
import javax.swing.JTable;
import java.sql.*;
import javax.swing.*;
import java.awt.event.ActionListener;
import java.awt.event.ActionEvent;
public class ManagerInfo extends JFrame {
        Connection conn = null;
        private JPanel contentPane;
        private JTable table;
        private JLabel lblNewLabel;
        private JLabel IblJob;
        private JLabel lblName;
        private JLabel lblDepartment;
        public static void main(String[] args) {
                EventQueue.invokeLater(new Runnable() {
                        public void run() {
                                try {
                                        ManagerInfo frame = new ManagerInfo();
                                        frame.setVisible(true);
```

```
} catch (Exception e) {
                               e.printStackTrace();
                       }
               }
       });
}
public void close()
       this.dispose();
}
public ManagerInfo() throws SQLException {
       //conn = Javaconnect.getDBConnection();
       setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
        setBounds(430, 200, 1000, 600);
        contentPane = new JPanel();
       contentPane.setBorder(new EmptyBorder(5, 5, 5, 5));
        setContentPane(contentPane);
       contentPane.setLayout(null);
       table = new JTable();
       table.setBounds(0, 34, 1000, 450);
        contentPane.add(table);
       JButton btnLoadData = new JButton("Load Data");
        btnLoadData.addActionListener(new ActionListener() {
               public void actionPerformed(ActionEvent e) {
                       try{
           conn c = new conn();
                       String displayCustomersql = "select * from Employee where job = 'Manager'";
                       ResultSet rs = c.s.executeQuery(displayCustomersql);
                       table.setModel(DbUtils.resultSetToTableModel(rs));
               }
                       catch(Exception e1){
```

```
e1.printStackTrace();
                      }
              }
      });
       btnLoadData.setBounds(350, 500, 120, 30);
btnLoadData.setBackground(Color.BLACK);
btnLoadData.setForeground(Color.WHITE);
      contentPane.add(btnLoadData);
      JButton btnExit = new JButton("Back");
       btnExit.addActionListener(new ActionListener() {
              public void actionPerformed(ActionEvent e) {
                      new Reception().setVisible(true);
        setVisible(false);
              }
      });
       btnExit.setBounds(510, 500, 120, 30);
btnExit.setBackground(Color.BLACK);
      btnExit.setForeground(Color.WHITE);
      contentPane.add(btnExit);
      lblNewLabel = new JLabel("Name");
      lblNewLabel.setBounds(41, 11, 46, 14);
       contentPane.add(lblNewLabel);
      lblJob = new JLabel("Age");
      lblJob.setBounds(159, 11, 46, 14);
       contentPane.add(lblJob);
      lblName = new JLabel("Gender");
      lblName.setBounds(273, 11, 46, 14);
       contentPane.add(lblName);
      lblDepartment = new JLabel("Job");
       lblDepartment.setBounds(416, 11, 86, 14);
```

```
contentPane.add(lblDepartment);
        JLabel I1 = new JLabel("Salary");
               l1.setBounds(536, 11, 86, 14);
               contentPane.add(I1);
        JLabel I2 = new JLabel("Phone");
               I2.setBounds(656, 11, 86, 14);
                contentPane.add(l2);
        JLabel I3 = new JLabel("Aadhar");
               13.setBounds(786, 11, 86, 14);
               contentPane.add(I3);
        JLabel I4 = new JLabel("Gmail");
               I4.setBounds(896, 11, 86, 14);
                contentPane.add(I4);
        getContentPane().setBackground(Color.WHITE);
        }
}
package hotel.management.system;
import java.awt.BorderLayout;
import java.awt.*;
import java.awt.EventQueue;
import javax.swing.border.EmptyBorder;
import java.awt.Font;
import java.awt.Image;
import java.sql.*;
import javax.swing.*;
import java.awt.event.ActionListener;
import java.awt.event.ActionEvent;
public class NewCustomer extends JFrame {
        Connection conn = null;
        PreparedStatement pst = null;
        private JPanel contentPane;
```

```
private HextField t1,t2,t3,t4,t5,t6,
    JComboBox comboBox;
    JRadioButton r1,r2;
    Choice c1;
       public static void main(String[] args) {
               EventQueue.invokeLater(new Runnable() {
                       public void run() {
                               try {
                                      NewCustomer frame = new NewCustomer();
                                      frame.setVisible(true);
                               } catch (Exception e) {
                                      e.printStackTrace();
                               }
                       }
               });
       }
       public NewCustomer() throws SQLException {
        setBounds(530, 200, 850, 550);
               contentPane = new JPanel();
               setContentPane(contentPane);
               contentPane.setLayout(null);
        Imagelcon i1 = new
ImageIcon(ClassLoader.getSystemResource("hotel/management/system/icons/fifth.png"));
        Image i3 = i1.getImage().getScaledInstance(300, 400,Image.SCALE_DEFAULT);
        ImageIcon i2 = new ImageIcon(i3);
        JLabel I1 = new JLabel(i2);
        l1.setBounds(480,10,300,500);
        add(l1);
               JLabel lblName = new JLabel("NEW CUSTOMER FORM");
               lblName.setFont(new Font("Yu Mincho", Font.PLAIN, 20));
               lblName.setBounds(118, 11, 260, 53);
               contentPane.add(lblName);
```

```
JLabel lblId = new JLabel("ID :");
       IblId.setBounds(35, 76, 200, 14);
       contentPane.add(lblId);
comboBox = new JComboBox(new String[] {"Passport", "Aadhar Card", "Voter Id", "Driving license"});
       comboBox.setBounds(271, 73, 150, 20);
       contentPane.add(comboBox);
JLabel I2 = new JLabel("Number :");
       I2.setBounds(35, 111, 200, 14);
       contentPane.add(I2);
t1 = new JTextField();
       t1.setBounds(271, 111, 150, 20);
       contentPane.add(t1);
       t1.setColumns(10);
       JLabel lblName_1 = new JLabel("Name :");
       lblName_1.setBounds(35, 151, 200, 14);
       contentPane.add(lblName_1);
       t2 = new JTextField();
       t2.setBounds(271, 151, 150, 20);
       contentPane.add(t2);
       t2.setColumns(10);
       JLabel lblGender = new JLabel("Gender :");
       lblGender.setBounds(35, 191, 200, 14);
       contentPane.add(lblGender);
r1 = new JRadioButton("Male");
r1.setFont(new Font("Raleway", Font.BOLD, 14));
r1.setBackground(Color.WHITE);
r1.setBounds(271, 191, 80, 12);
add(r1);
r2 = new JRadioButton("Female");
r2.setFont(new Font("Raleway", Font.BOLD, 14));
r2.setBackground(Color.WHITE);
```

```
r2.setBounds(350, 191, 100, 12);
       add(r2);
       JLabel lblCountry = new JLabel("Country :");
       lblCountry.setBounds(35, 231, 200, 14);
       contentPane.add(lblCountry);
       JLabel lblReserveRoomNumber = new JLabel("Allocated Room Number :");
       lblReserveRoomNumber.setBounds(35, 274, 200, 14);
       contentPane.add(lblReserveRoomNumber);
c1 = new Choice();
try{
  conn c = new conn();
  ResultSet rs = c.s.executeQuery("select * from room");
  while(rs.next()){
    c1.add(rs.getString("room_number"));
  }
}catch(Exception e){ }
c1.setBounds(271, 274, 150, 20);
       contentPane.add(c1);
       JLabel lblCheckInStatus = new JLabel("Checked-In :");
       lblCheckInStatus.setBounds(35, 316, 200, 14);
       contentPane.add(lblCheckInStatus);
       JLabel lblDeposite = new JLabel("Deposit :");
       lblDeposite.setBounds(35, 359, 200, 14);
       contentPane.add(lblDeposite);
       t3 = new JTextField();
       t3.setBounds(271, 231, 150, 20);
       contentPane.add(t3);
       t3.setColumns(10);
       t5 = new JTextField();
       t5.setBounds(271, 316, 150, 20);
       contentPane.add(t5);
```

```
t5.setColumns(10);
                t6 = new JTextField();
                t6.setBounds(271, 359, 150, 20);
                contentPane.add(t6);
                t6.setColumns(10);
                JButton btnNewButton = new JButton("Add");
                btnNewButton.addActionListener(new ActionListener() {
                        public void actionPerformed(ActionEvent e) {
               conn c = new conn();
               String radio = null;
               if(r1.isSelected()){
                  radio = "Male";
               }
               else if(r2.isSelected()){
                  radio = "Female";
               }
               String s6 = c1.getSelectedItem();
               try{
                  String s1 = (String)comboBox.getSelectedItem();
                                String s2 = t1.getText();
                                String s3 = t2.getText();
                  String s4 = radio;
                                String s5 = t3.getText();
                                String s7 = t5.getText();
                  String s8 = t6.getText();
                  String q1 = "insert into customer
values(""+s1+"",""+s2+"",""+s3+"",""+s4+"",""+s5+"",""+s6+"",""+s7+"",""+s8+"")";
                  String q2 = "update room set availability = 'Occupied' where room_number = "+s6;
                  c.s.executeUpdate(q1);
                  c.s.executeUpdate(q2);
```

```
JOptionPane.showMessageDialog(null, "Data Inserted Successfully");
         new Reception().setVisible(true);
         setVisible(false);
               }catch(SQLException e1){
                       System.out.println(e1.getMessage());
               }
                       catch(NumberFormatException s){
                               JOptionPane.showMessageDialog(null, "Please enter a valid Number");
               }
               }
       });
       btnNewButton.setBounds(100, 430, 120, 30);
btnNewButton.setBackground(Color.BLACK);
btnNewButton.setForeground(Color.WHITE);
       contentPane.add(btnNewButton);
       JButton btnExit = new JButton("Back");
       btnExit.addActionListener(new ActionListener() {
               public void actionPerformed(ActionEvent e) {
       new Reception().setVisible(true);
       setVisible(false);
               }
       });
       btnExit.setBounds(260, 430, 120, 30);
btnExit.setBackground(Color.BLACK);
btnExit.setForeground(Color.WHITE);
       contentPane.add(btnExit);
getContentPane().setBackground(Color.WHITE);
}
```

}

```
package hotel.management.system;
import java.awt.BorderLayout;
import java.awt.*;
import java.sql.*;
import javax.swing.*;
import javax.swing.border.EmptyBorder;
import net.proteanit.sql.DbUtils;
import java.awt.Font;
import java.awt.event.ActionListener;
import java.awt.event.ActionEvent;
public class PickUp extends JFrame {
        Connection conn = null;
        PreparedStatement pst = null;
        ResultSet rs = null;
        private JPanel contentPane;
        private JTable table;
    Choice c1;
        public static void main(String[] args) {
                EventQueue.invokeLater(new Runnable() {
                        public void run() {
                                try {
                                        PickUp frame = new PickUp();
                                        frame.setVisible(true);
                                } catch (Exception e) {
                                        e.printStackTrace();
                                }
                        }
                });
        }
        public void close()
```

```
{
       this.dispose();
}
public PickUp() throws SQLException {
       //conn = Javaconnect.getDBConnection();
       setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
       setBounds(530, 200, 800, 600);
       contentPane = new JPanel();
        contentPane.setBorder(new EmptyBorder(5, 5, 5, 5));
        setContentPane(contentPane);
        contentPane.setLayout(null);
       JLabel lblPickUpService = new JLabel("Pick Up Service");
       lblPickUpService.setFont(new Font("Tahoma", Font.PLAIN, 20));
       lblPickUpService.setBounds(90, 11, 158, 25);
        contentPane.add(lblPickUpService);
       JLabel lblTypeOfCar = new JLabel("Type of Car");
       lblTypeOfCar.setBounds(32, 97, 89, 14);
       contentPane.add(lblTypeOfCar);
c1 = new Choice();
try{
  conn c = new conn();
  ResultSet rs = c.s.executeQuery("select * from driver");
  while(rs.next()){
     c1.add(rs.getString("brand"));
  }
}catch(Exception e){ }
c1.setBounds(123, 94, 150, 25);
       contentPane.add(c1);
       JLabel lblInfo = new JLabel("Name");
       IblInfo.setBounds(24, 208, 46, 14);
        contentPane.add(lblInfo);
```

```
JButton btnRegister = new JButton("Display");
       btnRegister.addActionListener(new ActionListener() {
               public void actionPerformed(ActionEvent arg0) {
                       String SQL = "select * from driver where brand = ""+c1.getSelectedItem()+"";
                       try{
                               conn c = new conn();
                               rs = c.s.executeQuery(SQL);
                               table.setModel(DbUtils.resultSetToTableModel(rs));
                       }catch (SQLException ss)
                       {
                               ss.printStackTrace();
                       }
               }
       });
       btnRegister.setBounds(200, 500, 120, 30);
btnRegister.setBackground(Color.BLACK);
btnRegister.setForeground(Color.WHITE);
       contentPane.add(btnRegister);
       JButton btnExit = new JButton("Back");
       btnExit.addActionListener(new ActionListener() {
               public void actionPerformed(ActionEvent arg0) {
                       new Reception().setVisible(true);
        setVisible(false);
               }
       });
       btnExit.setBounds(420, 500, 120, 30);
btnExit.setBackground(Color.BLACK);
btnExit.setForeground(Color.WHITE);
       contentPane.add(btnExit);
       table = new JTable();
       table.setBounds(0, 233, 800, 250);
```

```
contentPane.add(table);
               JLabel lblNewLabel = new JLabel("Age");
               lblNewLabel.setBounds(165, 208, 46, 14);
                contentPane.add(lblNewLabel);
               JLabel lblGender = new JLabel("Gender");
               lblGender.setBounds(264, 208, 46, 14);
                contentPane.add(lblGender);
               JLabel lblTypeOfDriver = new JLabel("Company");
               IblTypeOfDriver.setBounds(366, 208, 80, 14);
                contentPane.add(lblTypeOfDriver);
               JLabel lblDateOfThe = new JLabel("Brand");
               lblDateOfThe.setBounds(486, 208, 105, 14);
                contentPane.add(lbIDateOfThe);
               JLabel lblAirport = new JLabel("Available");
               lblAirport.setBounds(600, 208, 86, 14);
               contentPane.add(lblAirport);
               JLabel lblAvailable = new JLabel("Location");
               lblAvailable.setBounds(700, 208, 73, 14);
               contentPane.add(lblAvailable);
        getContentPane().setBackground(Color.WHITE);
       }
}
package hotel.management.system;
import javax.swing.*;
import java.sql.*;
import java.awt.event.*;
import java.awt.*;
public class Reception extends JFrame {
        private JPanel contentPane;
        public static void main(String[] args) {
                new Reception();
```

```
}
       public Reception(){
        setBounds(530, 200, 850, 570);
               contentPane = new JPanel();
               setContentPane(contentPane);
               contentPane.setLayout(null);
        Imagelcon i1 = new
ImageIcon(ClassLoader.getSystemResource("hotel/management/system/icons/fourth.jpg"));
        Image i3 = i1.getImage().getScaledInstance(500, 500,Image.SCALE_DEFAULT);
        Imagelcon i2 = new Imagelcon(i3);
        JLabel l1 = new JLabel(i2);
        l1.setBounds(250,30,500,470);
        add(l1);
               JButton btnNewCustomerForm = new JButton("New Customer Form");
               btnNewCustomerForm.addActionListener(new ActionListener() {
                      public void actionPerformed(ActionEvent e) {
                              try{
                              NewCustomer custom = new NewCustomer();
                              custom.setVisible(true);
                setVisible(false);
                      }catch(Exception e1){
                              e1.printStackTrace();
                      }
                      }
               });
               btnNewCustomerForm.setBounds(10, 30, 200, 30);
        btnNewCustomerForm.setBackground(Color.BLACK);
        btnNewCustomerForm.setForeground(Color.WHITE);
               contentPane.add(btnNewCustomerForm);
               JButton btnNewButton = new JButton("Room");
```

```
btnNewButton.addActionListener(new ActionListener() {
              public void actionPerformed(ActionEvent arg0) {
                      try{
                      Room room = new Room();
                      room.setVisible(true);
        setVisible(false);
                      catch(Exception e){
                              e.printStackTrace();
                      }
              }
      });
       btnNewButton.setBounds(10, 70, 200, 30);
btnNewButton.setBackground(Color.BLACK);
btnNewButton.setForeground(Color.WHITE);
      contentPane.add(btnNewButton);
      JButton btnNewButton_1 = new JButton("Department");
       btnNewButton_1.addActionListener(new ActionListener() {
              public void actionPerformed(ActionEvent e) {
                      try{
                              Department dept = new Department();
                              dept.setVisible(true);
                              setVisible(false);
                      }
                      catch (Exception e1){
                              e1.printStackTrace();
                      }
              }
      });
       btnNewButton_1.setBounds(10, 110, 200, 30);
btnNewButton_1.setBackground(Color.BLACK);
```

```
btnNewButton_1.setForeground(Color.WHITE);
      contentPane.add(btnNewButton_1);
      JButton btnNewButton 2 = new JButton("All Employee Info");
      btnNewButton 2.addActionListener(new ActionListener() {
              public void actionPerformed(ActionEvent e) {
                      try{
                              Employee em = new Employee();
                             em.setVisible(true);
                             setVisible(false);
                      }
                      catch (Exception e1){
                             e1.printStackTrace();
                      }
              }
      });
      btnNewButton 2.setBounds(10, 150, 200, 30);
btnNewButton_2.setBackground(Color.BLACK);
btnNewButton_2.setForeground(Color.WHITE);
      contentPane.add(btnNewButton_2);
      JButton btnNewButton_3 = new JButton("Customer Info");
      btnNewButton_3.addActionListener(new ActionListener() {
              public void actionPerformed(ActionEvent e) {
                      try{
                             CustomerInfo customer = new CustomerInfo();
                             customer.setVisible(true);
                             setVisible(false);
                      }
                      catch (Exception e1){
                             e1.printStackTrace();
                      }
```

```
}
      });
      btnNewButton_3.setBounds(10, 190, 200, 30);
btnNewButton_3.setBackground(Color.BLACK);
btnNewButton_3.setForeground(Color.WHITE);
      contentPane.add(btnNewButton_3);
      JButton btnManagerInfo = new JButton("Manager Info");
      btnManagerInfo.addActionListener(new ActionListener() {
              public void actionPerformed(ActionEvent e) {
                      try{
                      ManagerInfo mana = new ManagerInfo();
                      mana.setVisible(true);
        setVisible(false);
                      }
                      catch (Exception e1){
                             e1.printStackTrace();
                      }
              }
      });
      btnManagerInfo.setBounds(10, 230, 200, 30);
btnManagerInfo.setBackground(Color.BLACK);
btnManagerInfo.setForeground(Color.WHITE);
      contentPane.add(btnManagerInfo);
      JButton btnNewButton_4 = new JButton("Check Out");
      btnNewButton_4.addActionListener(new ActionListener() {
              public void actionPerformed(ActionEvent e) {
                      CheckOut check;
                      try {
                             check = new CheckOut();
                             check.setVisible(true);
            setVisible(false);
```

```
e1.printStackTrace();
                     }
              }
      });
      btnNewButton_4.setBounds(10, 270, 200, 30);
btnNewButton_4.setBackground(Color.BLACK);
btnNewButton_4.setForeground(Color.WHITE);
      contentPane.add(btnNewButton_4);
      JButton btnNewButton_5 = new JButton("Update Check Status");
      btnNewButton_5.addActionListener(new ActionListener() {
              public void actionPerformed(ActionEvent e) {
                     try{
                      UpdateCheck update = new UpdateCheck();
                      update.setVisible(true);
        setVisible(false);
                     }
                     catch(Exception e1){
                             e1.printStackTrace();
                     }
              }
      });
      btnNewButton_5.setBounds(10, 310, 200, 30);
btnNewButton_5.setBackground(Color.BLACK);
btnNewButton_5.setForeground(Color.WHITE);
      contentPane.add(btnNewButton_5);
      JButton btnNewButton_6 = new JButton("Update Room Status");
      btnNewButton_6.addActionListener(new ActionListener() {
              public void actionPerformed(ActionEvent e) {
                     try{
                             UpdateRoom room = new UpdateRoom();
```

```
setVisible(false);
                      }catch(Exception s)
                      {
                              s.printStackTrace();
              }
      });
       btnNewButton_6.setBounds(10, 350, 200, 30);
btnNewButton_6.setBackground(Color.BLACK);
btnNewButton_6.setForeground(Color.WHITE);
      contentPane.add(btnNewButton_6);
      JButton btnPickUpSerice = new JButton("Pick up Service");
       btnPickUpSerice.addActionListener(new ActionListener() {
              public void actionPerformed(ActionEvent arg0) {
                      try{
                      PickUp pick = new PickUp();
                      pick.setVisible(true);
        setVisible(false);
                      catch(Exception e){
                              e.printStackTrace();
                      }
              }
      });
      btnPickUpSerice.setBounds(10, 390, 200, 30);
btnPickUpSerice.setBackground(Color.BLACK);
btnPickUpSerice.setForeground(Color.WHITE);
      contentPane.add(btnPickUpSerice);
      JButton btnSearchRoom = new JButton("Search Room");
       btnSearchRoom.addActionListener(new ActionListener() {
```

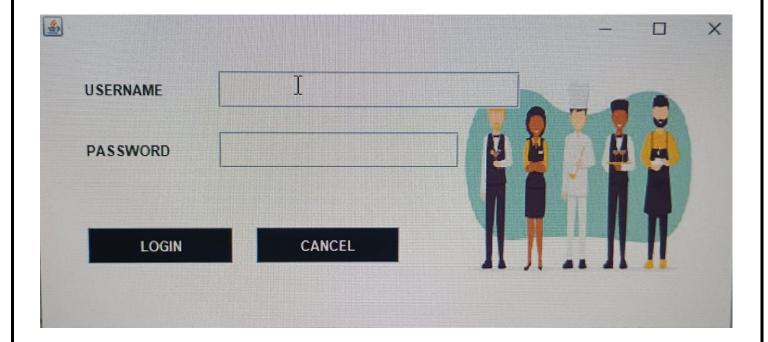
```
try {
                      SearchRoom search = new SearchRoom();
                      search.setVisible(true);
        setVisible(false);
                      catch (Exception ss){
                              ss.printStackTrace();
                      }
              }
      });
      btnSearchRoom.setBounds(10, 430, 200, 30);
btnSearchRoom.setBackground(Color.BLACK);
btnSearchRoom.setForeground(Color.WHITE);
       contentPane.add(btnSearchRoom);
      JButton btnNewButton_7 = new JButton("Log Out");
       btnNewButton_7.addActionListener(new ActionListener() {
              public void actionPerformed(ActionEvent ae) {
                      try {
          new Login().setVisible(true);
          setVisible(false);
                      } catch (Exception e) {
                              e.printStackTrace();
                      }
              }
      });
      btnNewButton_7.setBounds(10, 470, 200, 30);
btnNewButton_7.setBackground(Color.BLACK);
btnNewButton_7.setForeground(Color.WHITE);
       contentPane.add(btnNewButton_7);
getContentPane().setBackground(Color.WHITE);
```

```
setVisible(true);
      }
}
SQL QUIRES:-
create table employee(name varchar(25),age varchar(10),gender varchar(15),job
varchar(30), salary varchar(15), phone varchar(15), email varchar(40), aadhar varchar(20));
select*from login;
describe employee
select*from employee;
select*from room
create table driver(name varchar(20), age varchar(10), gender varchar(15), company
varchar(15), branch varchar(20), available varchar(20), location varchar(40));
create table customer(document varchar(20), number varchar(30),name
varchar(30),gender varchar(15),country varchar(15),room varchar(20),checkintime
varchar(40),deposit varchar(20));
select*from customer
describe room
select*from room;
create table department(department varchar(30), budget varchar(30));
select*from employee
insert into department values('Front Office','50000');
```

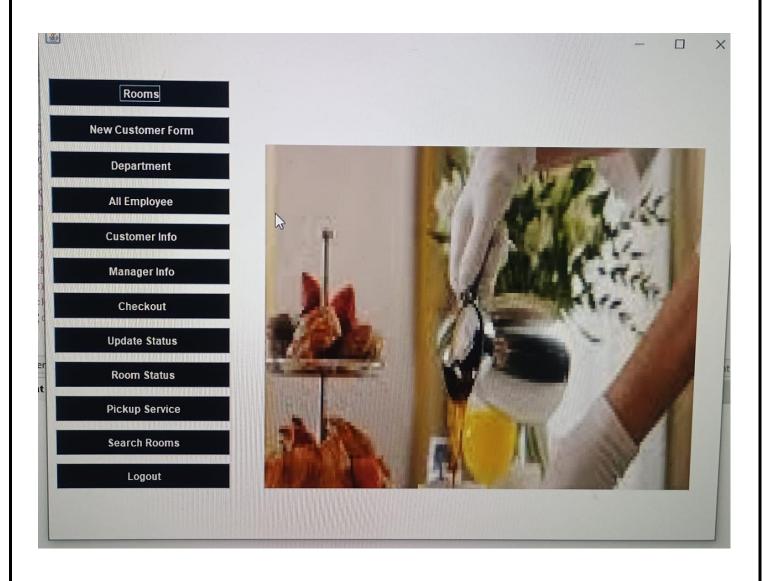
insert into department values('FHouseKeeping','40000');
insert into department values('Food and Beverage','30000');
insert into department values('Kitchen or Food Production','80000');
insert into department values('Security','35000');
select*from driver

# **OUTPUT:-**

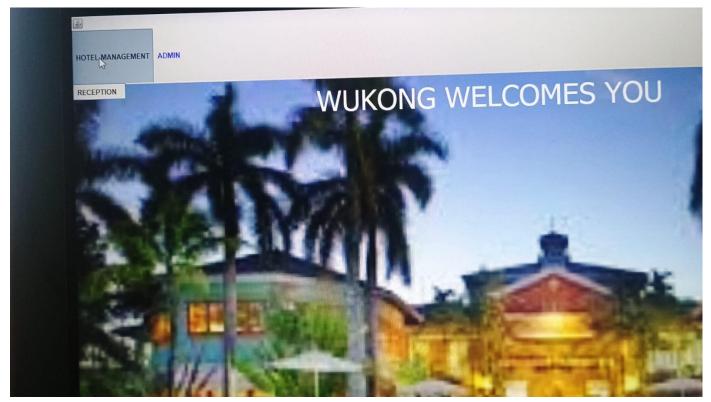
#### **LOGIN PAGE:-**



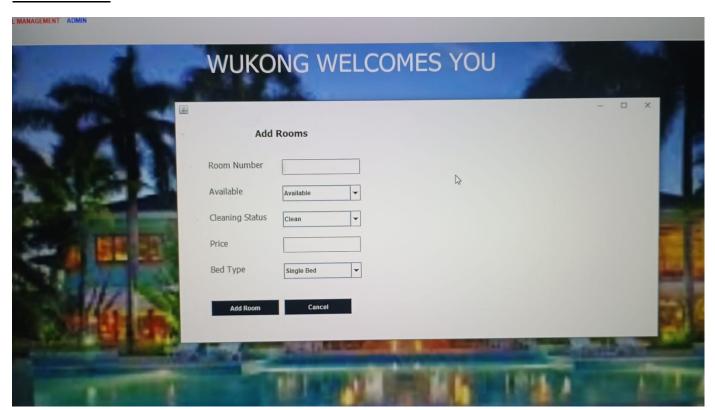
## **RECEPTION:-**



## <u>IMAGE - 1:</u>



#### <u>IMAGE – 2:</u>



## <u>IMAGE – 3:</u>



#### <u>IMAGE – 4:</u>

