

**20MCA132 OBJECT ORIENTED**  
**PROGRAMMING LAB**

**ASSIGNMENT-3**

SUBMITTED BY

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## **Course Outcome 2 (CO2)**

### 1.Perform string manipulations

#### **PROGRAM**

```
public class examp2
```

```
{
```

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

```
    {
```

```
        String x="All Are Welcome";
```

```
        int a= x.length();
```

```
        System.out.println("The length of the string is "+a);
```

```
        System.out.println(x.toUpperCase());
```

```
        System.out.println(x.toLowerCase());
```

```
        System.out.println(x.indexOf("Are"));
```

```
        String y="College";
```

```
        String z="College";
```

```
        System.out.println(x+"to"+y);
```

```
        System.out.println(z.concat(y));
```

```
        System.out.println(x.substring(5,12));//print a data from particular region
```

```
        if(y.equals(z))//compare two strings are equal or not
```

```
        {
```

```
            System.out.println("Strings are equal");
```

```
        }
```

```
        else
```

```
        {
```

```
            System.out.println("not equal");
```

```
        }
```

```
        System.out.println(x.charAt(7));//character at a position
```

```
        System.out.print("The reverse of "+y+" is : ");
```

```
        for(int j=y.length()-1; j>=0; j--)//reverse of a string
```

```

        {
            System.out.print(y.charAt(j));
        }
    if(x.contains("How"))
    {
        System.out.println("\nGiven Element found in "+x);
    }
    else
    {
        System.out.println("\nElement not found");
    }
    System.out.println(x.replace("All","You"));//replace function
}
}

```

## OUTPUT

The screenshot shows a Notepad++ window with a Java file named 'examp2.java'. The code includes string operations like length, case conversion, concatenation, substring, and a loop to print characters. It also features an if-statement to check for the presence of 'How' and a replace function to substitute 'All' with 'You'. A Command Prompt window is overlaid on the right, showing the execution of 'javac examp2.java' and 'java examp2', followed by the program's output: 'The length of the string is 15', 'ALL ARE WELCOME', 'All are welcome', 'All Are WelcometoCollege', 'CollegeCollege', 'Are Welc', 'Strings are equal', 'The reverse of College is : egelloC', 'Element not found', 'You Are Welcome', 'The reverse of "You" is : ', 'The reverse of a string is : java\_lab', and 'D:\java\_lab>'.

```

4  {
5      String x="All Are Welcome";
6      int a=x.length();
7      System.out.println("The length of the string is "+a);
8      System.out.println(x.toUpperCase());
9      System.out.println(x.toLowerCase());
10     System.out.println(x.indexOf("Are"));
11     String y="College";
12     String z="College";
13     System.out.println(x+"to"+y);
14     System.out.println(z.concat(y));
15     System.out.println(x.substring(5,12));//print a data
16     if(y.equals(z))//compare two strings are equal or not
17     {
18         System.out.println("Strings are equal");
19     }
20     else
21     {
22         System.out.println("not equal");
23     }
24     System.out.println(x.charAt(7));//character at a position
25     System.out.print("The reverse of "+y+" is : ");
26     for(int j=y.length()-1; j>=0;j--)//reverse of a string
27     {
28         System.out.print(y.charAt(j));
29     }
30     if(x.contains("How"))
31     {
32         System.out.println("\nGiven Element found in "+x);
33     }
34     else
35     {
36         System.out.println("\nElement not found");
37     }
38     System.out.println(x.replace("All","You"));//replace function
39 }
40 }

```

Command Prompt Output:

```

D:\java_lab>javac examp2.java
D:\java_lab>java examp2
The length of the string is 15
ALL ARE WELCOME
All are welcome
All Are WelcometoCollege
CollegeCollege
Are Welc
Strings are equal
The reverse of College is : egelloC
Element not found
You Are Welcome
The reverse of "You" is : 
The reverse of a string is : java_lab
D:\java_lab>

```

2. Program to create a class for Employee having attributes eNo, eName eSalary. Read n employ information and Search for an employee given eNo, using the concept of Array of Objects.

## **PROGRAM**

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

```
public class Employee
```

```
{
```

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

```
    {
```

```
        Scanner ab=new Scanner(System.in);
```

```
        Scanner ac=new Scanner(System.in);
```

```
        System.out.println("Enter the number of Employee");
```

```
        int n,i,flag=0;
```

```
        n=ab.nextInt();
```

```
        int eNo[]=new int[n];
```

```
        String eName[]= new String[n];
```

```
        float eSalary[]= new float[n];
```

```
        System.out.println("Enter the Employee informations");
```

```
        for(i=0;i<n;i++)
```

```
        {
```

```
            System.out.println("Employee Number");
```

```
            eNo[i]=ab.nextInt();
```

```
            System.out.println("Employee Name");
```

```
            eName[i]=ac.nextLine();
```

```
            System.out.println("Employee salary");
```

```
            eSalary[i]=ab.nextInt();
```

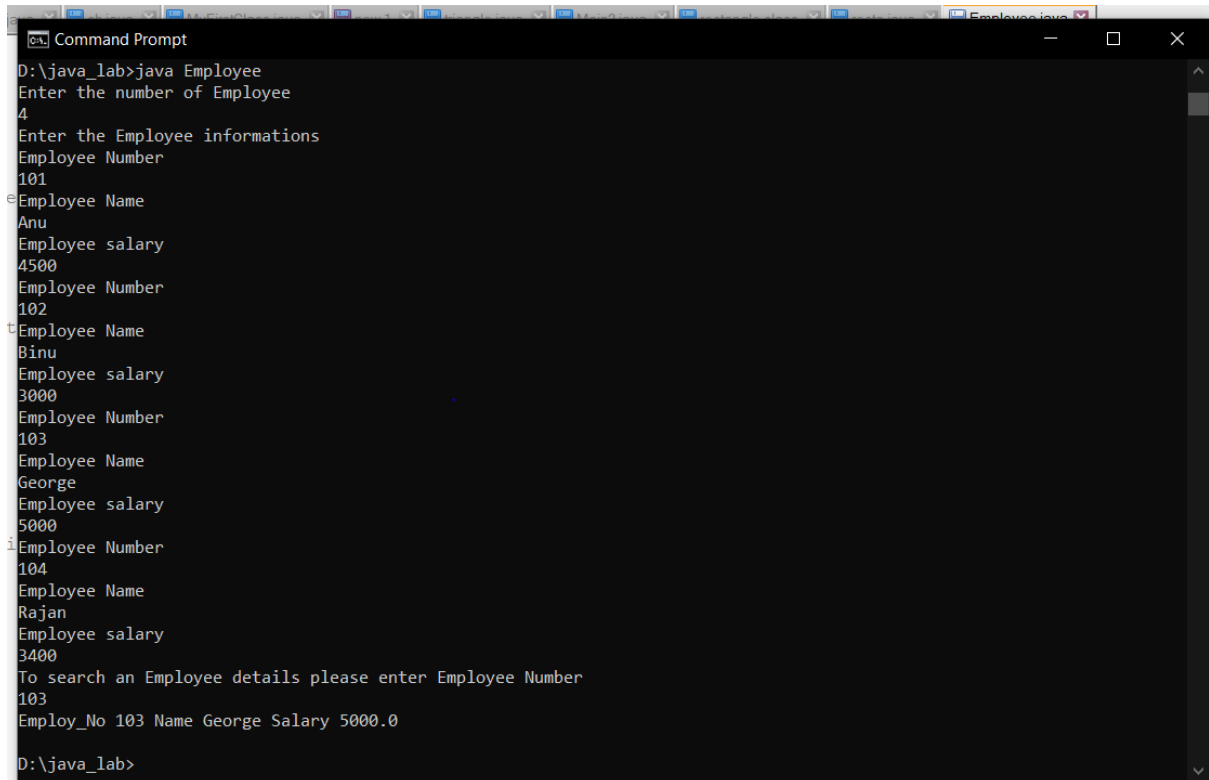
```
        }
```

```
        System.out.println("To search an Employee details please enter Employee  
Number");
```

```
        int d=ab.nextInt();
```

```
        for(i=0;i<n;i++)
        {
            if(eNo[i]==d)
            {
                flag=1;
                break;
            }
            else
            {
                flag=0;
            }
        }
        if(flag==1)
        {
            System.out.println("Employ_No "+eNo[i]+" Name "+eName[i]+"
Salary "+eSalary[i]);
        }
        else
        {
            System.out.println("Not a valid Employee number");
        }
    }
}
```

# OUTPUT



```
Command Prompt
D:\java_lab>java Employee
Enter the number of Employee
4
Enter the Employee informations
Employee Number
101
Employee Name
Anu
Employee salary
4500
Employee Number
102
Employee Name
Binu
Employee salary
3000
Employee Number
103
Employee Name
George
Employee salary
5000
Employee Number
104
Employee Name
Rajan
Employee salary
3400
To search an Employee details please enter Employee Number
103
Employ_No 103 Name George Salary 5000.0
D:\java_lab>
```