

Experiment Title – 2.4

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BRANCH – CSE BTECH

SEC – WM 902 B

SUB JAVA LAB

1. Aim/Overview of the practical: Employee Management System Create a menu based Java application with the following options.

1. Add an Employee
2. Display All
3. Exit

If option 1 is selected, the application should gather details of the employee like employee name, employee id, designation and salary and store it in a file.

If option 2 is selected, the application should display all the employee details.

If option 3 is selected the application should exit.

2. Software/Hardware Requirements: IntelliJ

3. Algorithm/pseudo code:

Step1: Start execution.

Step2: Declare 4 ArrayList to store employee name, employee id, designation and salary.

Step3: Using the constructor add values to the arraylist.

Step4: Make a display function to Display the contents of each arraylist using a for loop.



Step5: In main function take choices as input inside a switch statement.

Step6: Call the relevant functions as per the entered choices.

Step7: Stop execution.

4. Steps for experiment/practical/Code:

```
package com.chirag;

import java.util.*; public

class Exp24

{

    static ArrayList<String> empName = new ArrayList<>();

    static ArrayList<String> eid = new ArrayList<>();    static

    ArrayList<String> designation = new ArrayList<>();    static

    ArrayList<Integer> salary = new ArrayList<>();    public

    static class Employee{

        public void addData(String name1, String eid1, String designation1, int

        salary1){

            empName.add(name1);

            eid.add(eid1);

            designation.add(designation1);

            salary.add(salary1);

        }

    }

}
```



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```
public void display(){
    for (int i = 0; i < empName.size(); i++){
        System.out.println("Name: " + empName.get(i));
        System.out.println("Employee ID : " + eid.get(i));
        System.out.println("Designation: " + designation.get(i));
        System.out.println("Salary: " + salary.get(i));
    }
}
}
```

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

    while(true){
        System.out.println("Enter Choices: ");
        System.out.println("1. Add Employee");
        System.out.println("2. Display");
        System.out.println("3. Exit");

        int choices = in.nextInt();
    }
}
```



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```
Employee emp = new Employee();

switch(choices){
case 1:
    System.out.println("Enter your Name: ");
    String name = in.next();
    System.out.println("Enter your Designation: ");
    String designation = in.next();
    System.out.println("Enter your Eid: ");
    String eid = in.next();
    System.out.println("Enter your Salary: ");
    int salary = in.nextInt();
    emp.addData(name, eid, designation,
salary);           continue;           case 2:

emp.display();

continue;           case 3:

    return;
    }
}
```



```
4000
Enter Choices:
1. Add Employee
2. Display
3. Exit
2
Name: CHIRAG
Employee ID : 20BCS1838
Designation: ENGINEER
Salary: 5000
Name: SHIVAM
Employee ID : 20BCS1696
Designation: ENGINEER
Salary: 4000
Enter Choices:
1. Add Employee
2. Display
3. Exit
3
Process finished with exit code 0
```

SCREENSHOT - 2

Learning outcomes (What I have learnt):

- 1. Learned about ArrayList.**
- 2. Learned about Switch Statement**
- 3. Learned about ArrayList Traversal.**