Experiment Title – 2.4

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Subject Name: PBLJ LAB   **Subject Code:** 21 CSP-321

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, empoyee 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.
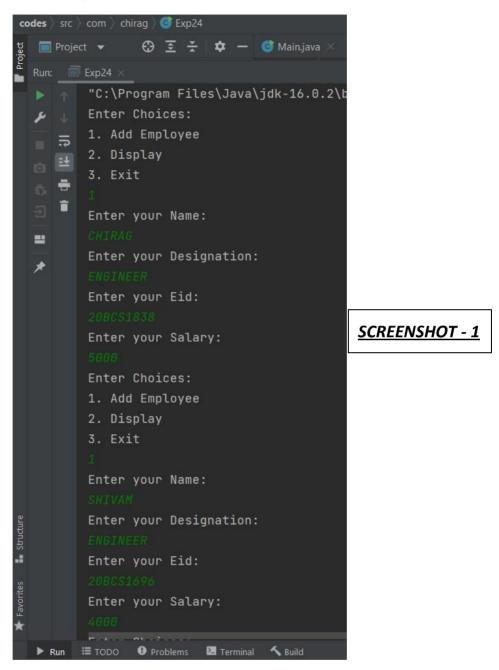
4. Steps for experiment/practical/Code:

```java
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);

    }


    public void display(){
```

```java
        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();


            Employee emp = new Employee();
```

```java
            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;

            }

        }

    }

}
```

5. Result/Output/Writing Summary:

SCREENSHOT - 1

```
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 Travesal.**