

Employee Leave Management

Abstract:

It is an application designed to manage leave of employees. It consists of 8 classes and one interface.

The classes are as follows.

- 1. EmployeeManagementSystem.java This contains the main method.
- 2. WelcomePage.java It displays the home page.
- 3. Login.java It checks the login credentials with username and password.
- 4. EmployeeDetails.java It tracks the detail of employees like location, designation and employee id etc.
- 5. HolidayManagement.java It tracks the attendance, leave taken, leaves left and is also used to apply for leave.
- 6. Sneha.java Employee 1 implemented from Employee.java interface.
- 7. Sruthy.java Employee 2 implemented from Employee.java interface.
- 8. Sumit.java Employee 3 implemented from Employee.java interface.
- 9. Employee.java It is the interface.

Flowchart:

It is given in the first page.

Source Code:

1. EmployeeManagementSystem.java

```
package project;
import java.util.Scanner;
public class EmployeeManagementSystem {
    static int login;
    static String ename;
    static Scanner sc = new Scanner(System.in);
    static Login log = new Login();
    static EmployeeDetails ed = new EmployeeDetails();
```

```
static HolidayManagement hm=new HolidayManagement();
    public static void main(String[] args) {
        WelcomePage wp = new WelcomePage();
        int n = wp.begin();
        // To check login is failure or successful
        if (n == 1) {
             log.input();
             login = log.validate();
         } else
             System.exit(0);
         // Get Employee Details
        if (login == 1)
             ename=ed.details();
        else
             loginChecker();
        if (ename.equals("sumit") ||
ename.equals("sruthy") || ename.equals("sneha"))
             hm.manageHoliday(ename);
             while (true) {
                 System.out.println("Do you want to
continue (y/n):");
                 char c = sc.next().charAt(0);
                 if (c == 'y')
                      hm.manageHoliday(ename);
                 else
                      System.exit(0);
             }
         }
        else
             System.exit(0);
    }
    static void loginChecker()
        System.out.println("Do you want to
continue(y/n):");
        char ch = sc.next().charAt(0);
        if (ch == 'y') {
             log.input();
```

```
login=log.validate();
if (login == 1)
        ed.details();
else
        loginChecker();

} else
        System.exit(0);
}
```

2. WelcomePage.java

3. Login.java:

```
package project;
import java.util.Scanner;
```

```
public class Login {
    String userName, password;
    static Scanner sc = new Scanner(System.in);
    //take username and password from user input
    void input() {
        System.out.println("***********");
        System.out.println("Login Credential");
        System.out.println("***********");
        System.out.println("Enter Username:");
        this.userName = sc.nextLine();
        System.out.println("Enter Password:");
        this.password = sc.nextLine();
    }
    //return 1 if login successful or return 0 if login
failed
    int validate() {
        if (this.userName.equalsIgnoreCase("admin") &&
this.password.equals("admin@123")) {
            System.out.println("***********");
            System.out.println("Login Successful");
            System.out.println("***********");
            return 1;
        } else {
            System.out.println("**********");
            System.out.println("Login Failed");
            System.out.println("***********");
            return 0;
        }
    }
```

4. EmployeeDetails.java:

```
package project;
import java.util.Scanner;
public class EmployeeDetails {
    static String ename;
```

```
static Scanner sc =new Scanner(System.in);
    //Fetch the Employee's Details
    String details()
        System.out.println("Enter Employee Name");
        ename=sc.nextLine();
        System.out.println("***********");
        System.out.println("Employee Details");
        System.out.println("***********");
        switch(ename)
        case "sumit":
             System.out.println("Employee ID=176541");
             System.out.println("Location=Bangalore");
             System.out.println("Designation=Software
Developer II");
             return ename;
        case "sruthy":
             System.out.println("Employee ID=179294");
             System.out.println("Location=Trivandrum");
             System.out.println("Designation=Associate
Software Developer");
             return ename;
        case "sneha":
             System.out.println("Employee ID=112356");
             System.out.println("Location=Hyderabad");
             System.out.println("Designation=Project
Manager");
             return ename;
        default:
                 System.out.println(ename+" is an invalid
employee name");
                 return ename;
        }
    }
```

5. HolidayManagement.java:

```
package project;
import java.util.Scanner;
public class HolidayManagement {
    static Scanner sc = new Scanner(System.in);
    Sruthy s1 = new Sruthy();
    Sneha s2 = new Sneha();
    Sumit s3= new Sumit();
    void manageHoliday(String ename) {
        System.out.println("*********");
        System.out.println("Manage Holiday");
        System.out.println("*********");
        System.out.println("1.View Attendance");
        System.out.println("2.View Lop");
         System.out.println("3.Apply for the Leave");
        System.out.println("4.Leaves Left");
        System.out.println("Enter your choice(1-4):");
        int ch = sc.nextInt();
        switch (ch) {
        case 1:
             if (ename.equals("sruthy"))
                 s1.attendance();
             else if (ename.equals("sneha"))
                 s2.attendance();
             else
                 s3.attendance();
             break;
        case 2:
             if (ename.equals("sruthy"))
                 s1.lop();
             else if (ename.equals("sneha"))
                 s2.lop();
             else
                 s3.lop();
             break:
        case 3:
             if (ename.equals("sruthy"))
                  s1.applyLeave();
```

```
else if(ename.equals("sneha"))
             s2.applyLeave();
        else
             s3.applyLeave();
        break;
    case 4:
         if (ename.equals("sruthy"))
             s1.leaveBalance();
        else if (ename.equals("sneha"))
             s2.leaveBalance();
        else
             s3.leaveBalance();
        break:
    default:
         System.out.println("Invalid Choice");
    }
}
```

6. Sneha. java:

```
package project;
import java.util.Scanner;

public class Sneha implements Employee{
    static int cl=6,pl=6,sl=6,lop=1, leaveTaken=2;
    static int leaveLeft=(cl+pl+sl)- leaveTaken;
    static Scanner sc= new Scanner(System.in);
    @Override
    public void attendance()
    {
        System.out.println("Total Working Day="+365);
        System.out.println("Leave Taken="+leaveTaken);
    }

    @Override
    public void lop()
    {
        System.out.println("You have Loss of Payment for "+lop+" days");
    }
}
```

```
@Override
public void applyLeave()
    if (leaveLeft <= 0)</pre>
         System.out.println("Leave Left="+leaveLeft);
         System.out.println("Leave Denied");
    else
         System.out.println("Enter the no of days:");
         leaveTaken=leaveTaken+sc.nextInt();
         System.out.println("Leave Granted");
         leaveLeft=(cl+pl+sl)-leaveTaken;
         System.out.println("Leave Left="+leaveLeft);
    }
}
@Override
public void leaveBalance()
    System.out.println("Leave Left:"+leaveLeft);
}
```

7. Sruthy. java:

```
package project;
import java.util.Scanner;

public class Sruthy implements Employee{

    static int cl=6,pl=6,sl=6,lop=3, leaveTaken=4;
    static int leaveLeft=(cl+pl+sl) - leaveTaken;
    static Scanner sc= new Scanner(System.in);
    @Override
    public void attendance()
    {
        System.out.println("Total Working Day="+365);
        System.out.println("Leave Taken="+leaveTaken);
    }
}
```

```
}
    @Override
    public void lop()
        System.out.println("You have Loss of Payment for
"+lop+" days");
    @Override
    public void applyLeave()
        if (leaveLeft <= 0)</pre>
             System.out.println("Leave Left="+leaveLeft);
             System.out.println("Leave Denied");
        else
             System.out.println("Enter the no of days:");
             leaveTaken=leaveTaken+sc.nextInt();
             System.out.println("Leave Granted");
             leaveLeft=(cl+pl+sl)-leaveTaken;
             System.out.println("Leave Left="+leaveLeft);
         }
    }
    @Override
    public void leaveBalance()
        System.out.println("Leave Left:"+leaveLeft);
}
```

8. Sumit.java:

```
package project;
import java.util.Scanner;
```

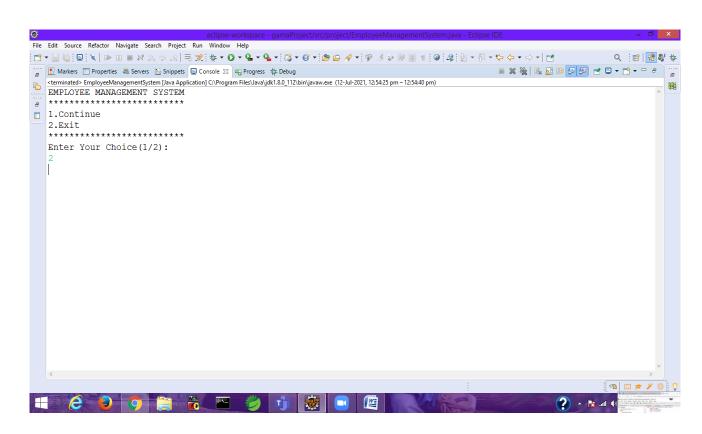
```
public class Sumit implements Employee{
    static int c1=6,p1=6,s1=6,lop=2, leaveTaken=18;
    static int leaveLeft=(cl+pl+sl) - leaveTaken;
    static Scanner sc= new Scanner(System.in);
    @Override
    public void attendance()
        System.out.println("Total Working Day="+365);
        System.out.println("Leave Taken="+leaveTaken);
    }
    @Override
    public void lop()
        System.out.println("You have Loss of Payment for
"+lop+" days");
    @Override
    public void applyLeave()
        if (leaveLeft <= 0)</pre>
             System.out.println("Leave Left="+leaveLeft);
             System.out.println("Leave Denied");
         }
        else
             System.out.println("Enter the no of days:");
             leaveTaken=leaveTaken+sc.nextInt();
             System.out.println("Leave Granted");
             leaveLeft=(cl+pl+sl)-leaveTaken;
             System.out.println("Leave Left="+leaveLeft);
         }
    }
    @Override
    public void leaveBalance()
        System.out.println("Leave Left:"+leaveLeft);
    }
}
```

9. Employee.java:

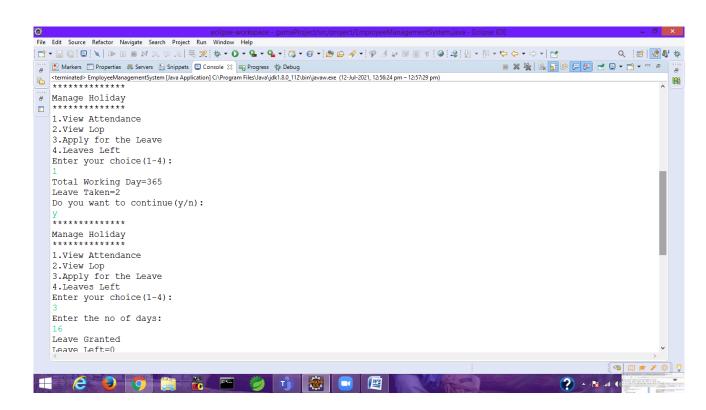
```
package project;

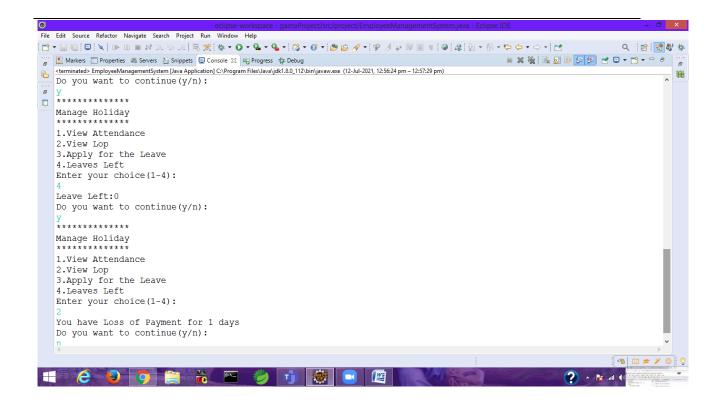
public interface Employee {
    void attendance();
    void lop();
    void applyLeave();
    void leaveBalance();
}
```

Output:



```
File Edit Source Refactor Navigate Search Project Run Window Help
Q | 12 | 12 数 参
Markers 🗔 Properties 🚜 Servers 🖺 Snippets 📮 Console 💢 🔫 Progress 🔅 Debug
                                                                         <terminated> EmployeeManagementSystem [Java Application] C:\Program Files\Java\jdk1.8.0_112\bin\javaw.exe (12-Jul-2021, 12:56:24 pm – 12:57:29 pm)
EMPLOYEE MANAGEMENT SYSTEM
                                                                                                    *******
□ 1.Continue
  Enter Your Choice (1/2):
  *****
  Login Credential
  Enter Username:
  admin
  Enter Password:
  admin@123
  Login Successful
  Enter Employee Name
  sneha
***********
  Employee Details
  Employee ID=112356
  Location=Hyderabad
  Designation=Project Manager
                                                                                          (?) ^ 🔯 .al ()
```





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------ Thank You------