**Problem Statement**

→ The assignment will contain 4 departments as four different object classes

                i) **Super Department**

               ii) **Admin Department**

               iii) **Hr Department**

               iv) **Tech Department**

→ Super Department class will be the **superclass** and all other departments **must** extend it.

→ **Super department** will contain 4 methods of return type **String** and will **not** accept any parameter

               i)  departmentName

              ii)  getTodaysWork

              iii) getWorkDeadline

              iv) isTodayAHoliday

departmentName will return “ Super Department “

getTodaysWork will return  “ No Work as of now”

getWorkDeadline will return “ Nil “

isTodayAHoliday will return “ Today is not a holiday”

→ **Admin department** will contain 3 methods of return type **String** and will **not** accept any parameter

               i)  departmentName

              ii)  getTodaysWork

              iii) getWorkDeadline

departmentName will return “ Admin Department “

getTodaysWork will return “Complete your documents Submission”

getWorkDeadline will return “ Complete by EOD “

→ **Hr department** will contain 4 methods of return type **String** and will **not** accept any parameter

               i)  departmentName

              ii)  getTodaysWork

              iii) getWorkDeadline

              iv) doActivity

departmentName will return “ Hr Department “

getTodaysWork will return  “ Fill today’s worksheet and mark your attendance”

getWorkDeadline will return “ Complete by EOD “

doActivity “team Lunch”

→ **Tech department** will contain 4 methods of return type **String** and will **not** accept any parameter

               i)  departmentName

              ii)  getTodaysWork

              iii) getWorkDeadline

              iv) getTechStackInformation

departmentName will return “ Tech Department “

getTodaysWork will return  “ Complete coding of module 1”

getWorkDeadline will return “ Complete by EOD “

getTechStackInformation will return “core Java”

→ Driver class **Main** will be used to create objects of HrDepartment, TechDepartment, AdminDepartment

→ Each department will display all its functionalities.

→ Each department  will display whether today is a holiday or not with the help of the Super Department. (SuperDepartment will act as a super class for all the departments)

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**Expected Output**

 Welcome to Admin Department

Complete your documents submission

Complete by EOD

Today is not a Holiday

 Welcome to HR Department

team Lunch

Fill today’s timesheet and mark your attendance

Complete by EOD

Today is not a Holiday

 Welcome to Tech Department

Complete coding of Module 1

Complete by EOD

 Core Java

Today is not a Holiday

**Scoring guide (Rubric) - Some Rubric**

| **Criteria** | **Points** |
| --- | --- |
| **Formatting and Indentation**  The code is formatted correctly; it uses the logical spacing and indentations | 5 |
| **Package Structures and Class Structures**  The classes are separate and not present inside one file The Classes are placed inside suitable package | 7.5 |
| **Correct coding Logic**  Separate driver class which will be used to create objects | 7.5 |
| **Desired Outputs**  All 4 departments working correctly | 30 |
| Points | 50 |