**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 timesheet 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

package thejavapackage;

public class SuperDepartment{

public String departmentName() {

// TODO Auto-generated method stub

return "Super Department";

}

public String getTodaysWork() {

// TODO Auto-generated method stub

return "No Work as of now";

}

public String getWorkDeadline() {

// TODO Auto-generated method stub

return "Nil";

}

public String isTodayAHoliday() {

// TODO Auto-generated method stub

return "Today is not a holiday";

}

}

package thejavapackage;

public class AdminDepartment extends SuperDepartment {

public String departmentName() {

// TODO Auto-generated method stub

return "Admin Department";

}

public String getTodaysWork() {

// TODO Auto-generated method stub

return "Complete your document Submission";

}

public String getWorkDeadline() {

// TODO Auto-generated method stub

return "Complete by EOD";

}

}

package thejavapackage;

public class HrDepartment extends SuperDepartment {

public String departmentName() {

// TODO Auto-generated method stub

return "Hr Department";

}

public String getTodaysWork() {

// TODO Auto-generated method stub

return "Fill today's timesheet and mark your attendence";

}

public String getWorkDeadline() {

// TODO Auto-generated method stub

return "Complete by EOD";

}

public String doActivity() {

return "team lunch";

}

}

package thejavapackage;

public class TechDepartment extends SuperDepartment {

public String departmentName() {

// TODO Auto-generated method stub

return "Tech Department";

}

public String getTodaysWork() {

// TODO Auto-generated method stub

return "Complete coding of module 1";

}

public String getWorkDeadline() {

// TODO Auto-generated method stub

return "Complete by EOD";

}

public String getTechStackIformation() {

return "core java";

}

}

**Result**

package thejavapackage;

public class Results {

public static void main(String[] args) {

HrDepartment hrObj= new HrDepartment();

TechDepartment TechObj= new TechDepartment();

AdminDepartment AdminObj= new AdminDepartment();

System.out.println("Welcome to "+ AdminObj.departmentName());

System.out.println(AdminObj.getTodaysWork());

System.out.println(AdminObj.getWorkDeadline());

System.out.println(AdminObj.isTodayAHoliday());

System.out.println();

System.out.println("Welcome to "+hrObj.departmentName());

System.out.println(hrObj.getTodaysWork());

System.out.println(hrObj.getWorkDeadline());

System.out.println(hrObj.isTodayAHoliday());

System.out.println();

System.out.println("Welcome to "+TechObj.departmentName());

System.out.println(TechObj.getTodaysWork());

System.out.println(TechObj.getWorkDeadline());

System.out.println(TechObj.getTechStackIformation());

System.out.println(TechObj.isTodayAHoliday());

}

}