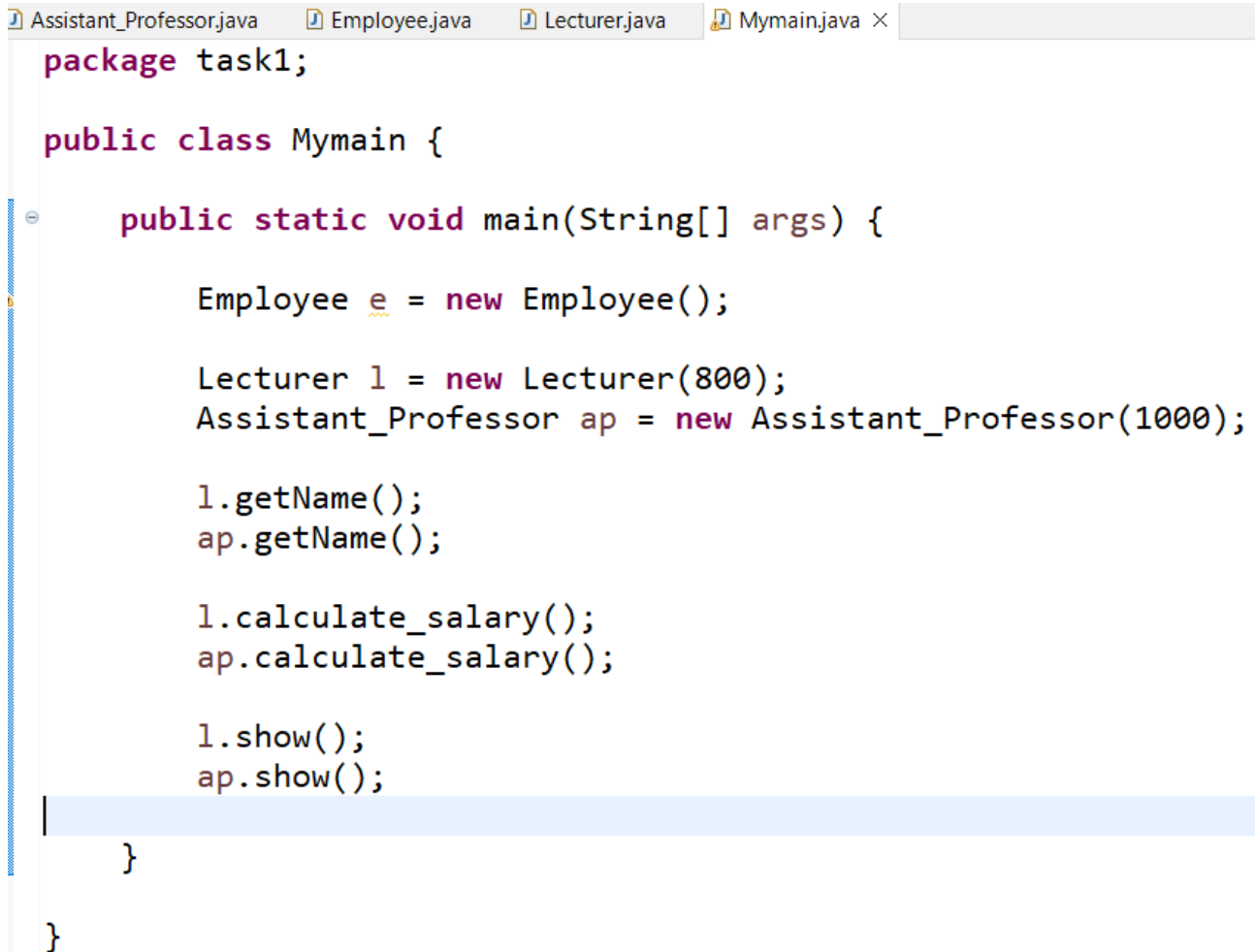


SDA LAB 1 TASKS

K201052 S.M.HASSAN ALI

1-



```
Assistant_Professor.java Employee.java Lecturer.java Mymain.java ×
package task1;

public class Mymain {

    public static void main(String[] args) {

        Employee e = new Employee();

        Lecturer l = new Lecturer(800);
        Assistant_Professor ap = new Assistant_Professor(1000);

        l.getName();
        ap.getName();

        l.calculate_salary();
        ap.calculate_salary();

        l.show();
        ap.show();

    }

}
```

```

public class Employee {

    String name;
    double salary;
    int slhours;

    public Employee() {
        // TODO Auto-generated constructor stub
    }

    void getName() {
        @SuppressWarnings("resource")
        Scanner input = new Scanner(System.in);

        System.out.print("Enter the name of Employee: ");

        name = input.nextLine();
    }

    void calculate_salary() {
        salary = slhours * 48;
    }

    void show() {
        System.out.print("NAME: ");
        System.out.println(name);
        System.out.print("SALARY: ");
        System.out.println(salary);
    }
}

```

```

package task1;

```

```

public class Lecturer extends Employee {

    public Lecturer(int b) {

        slhours = b;
    }

}

```

```
package task1;

public class Assistant_Professor extends Employee {

    public Assistant_Professor(int c) {
        slhours = c;
    }

}
```

Properties ✓ Model Validation References Documentation Console ×

<terminated> mymain [Java Application] D:\papyrus\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.
Enter the name of Employee: HASSAN ALI
Enter the name of Employee: UMER KHAN
NAME: HASSAN ALI
SALARY: 38400.0
NAME: UMER KHAN
SALARY: 48000.0

2-

```
HELLO_PETER.java  mymain.java ×
package task2;

public class mymain {

    public static void main(String[] args) {

        HELLO_PETER Hp = new HELLO_PETER();

        int x = Hp.min(2, 5);

        System.out.println(x);

        x = Hp.min(2, 5, 7);

        System.out.println(x);

    }

}
```

```

package task2;

public class HELLO_PETER {

    public HELLO_PETER() {

    }

    int min(int a, int b) {




        if(a > b) {
            return a;
        }
        else {
            return b;
        }
    }

    int min(int a, int b,int c) {

        if(a > b && a > c) {
            return a;
        }
        else if(b > a && b > c) {
            return b;
        }
        else {
            return c;
        }
    }

}

```

 Properties
  Model Valida...
  References
  D




<terminated> mymain (1) [Java Application] D:\papyru

5

7

3-



```
import java.util.Scanner;

public class Cake {

    int quantity;
    float weight;
    int cakeprice;
    float total;

    public Cake() {
        // TODO Auto-generated constructor stub
    }

    void getweight() {
        @SuppressWarnings("resource")
        Scanner input = new Scanner(System.in);

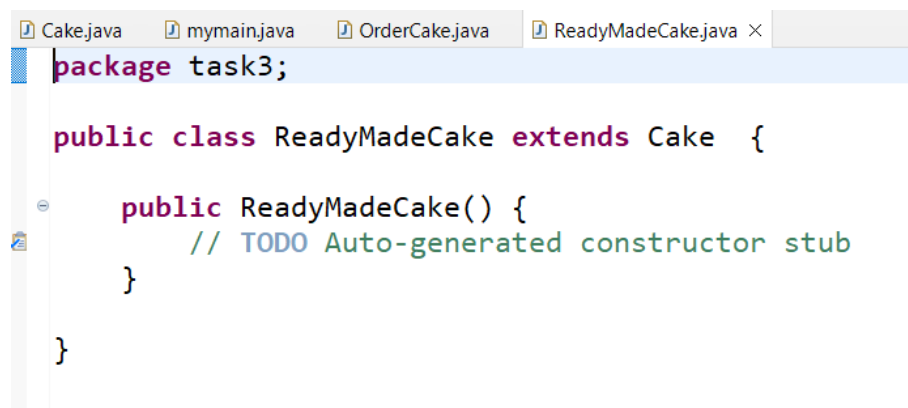
        System.out.print("Enter the weight of cake: ");
        weight = input.nextFloat();

        System.out.print("Enter the quantity of cake: ");
        quantity = input.nextInt();
    }

    void cal(int a) {
        cakeprice = a;
        total = weight * quantity * cakeprice;
    }
}
```

Properties | Model Validation | References | Documentation | Console X

<terminated> mymain (1) [Java Application] D:\papyrus\plugins\org.eclipse.justi.openjdk.hotspot.jre.full.win32.x86_64_11.0.13.v20211116\bin\java.exe



```
package task3;

public class ReadyMadeCake extends Cake {

    public ReadyMadeCake() {
        // TODO Auto-generated constructor stub
    }
}
```

```

Cake.java mymain.java OrderCake.java × ReadyMadeCake.java
package task3;

public class OrderCake extends Cake {

    public OrderCake() {
        // TODO Auto-generated constructor stub
    }

}

```

```

Cake.java *mymain.java × OrderCake.java ReadyMadeCake.java
package task3;

public class mymain {
    public static void main(String[] args) {

        ReadyMadeCake rmc = new ReadyMadeCake();
        OrderCake oc = new OrderCake();

        System.out.println("READY MADE CAKE");
        rmc.getweight();
        System.out.println("ORDERED CAKE");
        oc.getweight();

        rmc.cal(500);
        oc.cal(800);

        int x = rmc.quantity + oc.quantity;
        float y = rmc.total + oc.total;

        System.out.print("Total cakes ordered: ");
        System.out.println(x);

        System.out.print("Total amount: ");
        System.out.print(y);

    }
}

```

READY MADE CAKE

Enter the weight of cake: 55.67

Enter the quantity of cake: 4

ORDERED CAKE

Enter the weight of cake: 78.78

Enter the quantity of cake: 8

Total cakes ordered: 12

Total amount: 615532.0