

Java AT-2

Write a program to implement single inheritance. Declare super class 'Employee' with emp_no and emp_name. Declare subclass 'Fitness' with height and weight. Accept and display data for five employees.

Program:

```
/*
Write a program to implement single inheritance. Declare super class
'Employee' with emp_no and emp_name. Declare subclass 'Fitness'
with height and weight. Accept and display data for five employees.
*/

import java.util.Scanner;

class Employee{

    private int emp_no;
    private String emp_name;

    Scanner scanner = new Scanner(System.in);

    //Method to display employee name and id
    public void getData(){
        System.out.println("The name of Employee is:" + emp_name);
        System.out.println("The ID of Employee is:" + emp_no);
    }

    //Method to enter employee name and id
    public void putData(){
        System.out.println("Enter Employee name:");
        emp_name = scanner.nextLine();
        System.out.println("Enter Employee number:");
    }
}
```

```
        emp_no = scanner.nextInt();
    }
}
//Class fitness extends Employee class
class Fitness extends Employee{

    private float height, weight;

    Scanner scanner = new Scanner(System.in);

    //Method to enter employee height
    public void setHeight() {
        System.out.println("Enter Employee height in centimeters:");
        height = scanner.nextFloat();
    }
    //Method to enter employee weight
    public void setWeight() {
        System.out.println("Enter Employee weight kilograms:");
        weight = scanner.nextFloat();
    }
    //Method to display employee height and weight
    public void display(){
        super.getData();
        System.out.println("The height of Employee is:" + height);
        System.out.println("The weight of Employee is:" + weight);
    }
}

//Driver Class
public class AT_2 {

    public static void main(String[] args) {
```

```
System.out.println("Enter details");

//Instantiating object array of fitness class
Fitness emp[] = new Fitness[5];

//creating employee objects using constructor
for (int i = 0; i < 5; i++) {
    emp[i] = new Fitness();
}

//initializing employee details
for (int i = 0; i < 5; i++) {
    System.out.println("Employee " + (i+1));
    emp[i].putData();
    emp[i].setHeight();
    emp[i].setWeight();
    System.out.println("\n");
}

System.out.println("Displaying Employee Details:");

//Displaying employee details
for (int i = 0; i < 5; i++) {
    System.out.println("\n");
    emp[i].display();
}
}
```

Output:

```
Microsoft Windows [Version 10.0.19042.662]
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D:\College\JAVA\Assignment Test>javac AT_2.java

D:\College\JAVA\Assignment Test>java AT_2
Enter details
Employee 1
Enter Employee name:
Vincent
Enter Employee number:
1
Enter Employee height in centimeters:
180
Enter Employee weight kilograms:
80

Employee 2
Enter Employee name:
Charles
Enter Employee number:
2
Enter Employee height in centimeters:
160
Enter Employee weight kilograms:
60
```

```
Employee 3
Enter Employee name:
Clara
Enter Employee number:
3
Enter Employee height in centimeters:
165
Enter Employee weight kilograms:
65
```

```
Employee 4
Enter Employee name:
John
Enter Employee number:
4
Enter Employee height in centimeters:
170
Enter Employee weight kilograms:
70
```

```
Employee 5
Enter Employee name:
Mike
Enter Employee number:
5
Enter Employee height in centimeters:
175
Enter Employee weight kilograms:
75
```

Displaying Employee Details:

The name of Employee is:Vincent
The ID of Employee is:1
The height of Employee is:180.0
The weight of Employee is:80.0

The name of Employee is:Charles
The ID of Employee is:2
The height of Employee is:160.0
The weight of Employee is:60.0

The name of Employee is:Clara
The ID of Employee is:3
The height of Employee is:165.0
The weight of Employee is:65.0

The name of Employee is:John
The ID of Employee is:4
The height of Employee is:170.0
The weight of Employee is:70.0

The name of Employee is:Mike
The ID of Employee is:5
The height of Employee is:175.0
The weight of Employee is:75.0

D:\College\JAVA\Assignment Test>