



COMSATS University Islamabad

Department of Computer Science

Assignment-1 [CLO-1] [Marks 10]

Due Date: 20/03/23

Q1. Rewrite the following code using object oriented approach.

```
1. import java.util.Scanner;
2. public class Test {
3.     public static void main(String[] args) {
4.         Scanner input=new Scanner(System.in);
5.         String w1_name=null;
6.         int w1_hours_worked = 0;
7.         double w1_hourly_wage=0.0;
8.
9.         String w2_name=null;
10.        int w2_hours_worked = 0;
11.        double w2_hourly_wage=0.0;
12.
13.        System.out.println("Enter the details of worker1");
14.        System.out.print("Enter Name:");
15.        w1_name=input.next();
16.        System.out.print("Enter Hours worked:");
17.        w1_hours_worked=input.nextInt();
18.        System.out.print("Enter Hourly wage:");
19.        w1_hourly_wage=input.nextDouble();
20.
21.        System.out.println("Enter the details of worker2");
22.        System.out.print("Enter Name:");
23.        w2_name=input.next();
24.        System.out.print("Enter Hours worked:");
25.        w2_hours_worked=input.nextInt();
26.        System.out.print("Enter Hourly wage:");
27.        w2_hourly_wage=input.nextDouble();
28.
29.        System.out.println("Name:"+w1_name+"\tPay is
: "+calculate_pay(w1_hours_worked,w1_hourly_wage));
30.        System.out.println("\t\t\t****\t\t\t");
31.
32.        System.out.println("Name:"+w2_name+"\tPay
is: "+calculate_pay(w2_hours_worked,w2_hourly_wage));
33.        System.out.println("\t\t\t****\t\t\t");
34.    }
35.        public static double calculate_pay(int hours, double wage){
36.            double pay=hours*wage;
37.
38.            if (hours > 40.0)
39.                pay = pay + (0.5 * wage * (hours - 40));
40.
41.            return pay;
42.        }
43.    }
```

Q2. Consider the concept of a flight and define a class for it in java. Identify necessary attributes to represent a flight. Assign appropriate data types and access specifiers to the data members of class. Also write the methods for the class.

Note:

The class must have at least five data members.

You may only write the signature of the methods.