Green University of Bangladesh

Department of Computer Science and Engineering

Midterm Exam Assignment

Course Title: Object Oriented programming

Course code: CSE-201

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Submitted to:	Submitted by :
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A.

A programming language is called platform independent if that program can be run on any platform (operating system). Java is platform-independent because the same java program can run on any operating system.like windows, mac, linux.

B.

Structured Programming	Object Oriented programming
Structured Programming is designed which focuses on logical structure and then data required for that process.	Object Oriented Programming is designed which focuses on data.
Structured Programming is less secure as there is no way of data hiding.	In Structured Programming, Programs are divided into small self contained functions.
Structured Programming provides less reusability, more function dependency.	Object Oriented Programming provides more reusability, less function dependency.
Less abstraction and less flexibility.	More abstraction and more flexibility.

Objective:

1.This program help us to know about the basics of JAVA.

2. We will learn to observe how main function and parameter work in an object oriented programming.

Code:

```
package teacher;


/**
 *
 * @jakirul islam_193002101
 */

  class Teacher {
    private String Name;
    private int ID;
    private int Salary;
    Teacher(){
        Name = "Jakirul";
        ID = 193002101;
        Salary = 2500;
```

```java
        }
        Teacher(String teacher_name, int teacher_id, int teacher_salary ){
            Name = teacher_name;
            ID = teacher_id;
            Salary = teacher_salary;
        }
        Teacher(Teacher newobj){
            this.Name = newobj.Name;
            this.ID = newobj.ID;
            this.Salary = newobj.Salary;
        }
        public void display(Teacher obj){
            System.out.println("Name: "+ obj.Name);
            System.out.println("ID: "+ obj.ID);
            System.out.println("Salary: "+obj.Salary);
            System.out.println("\n");
        }
}
Public class Teacherxample{
    public static void main(String[] args ){
```
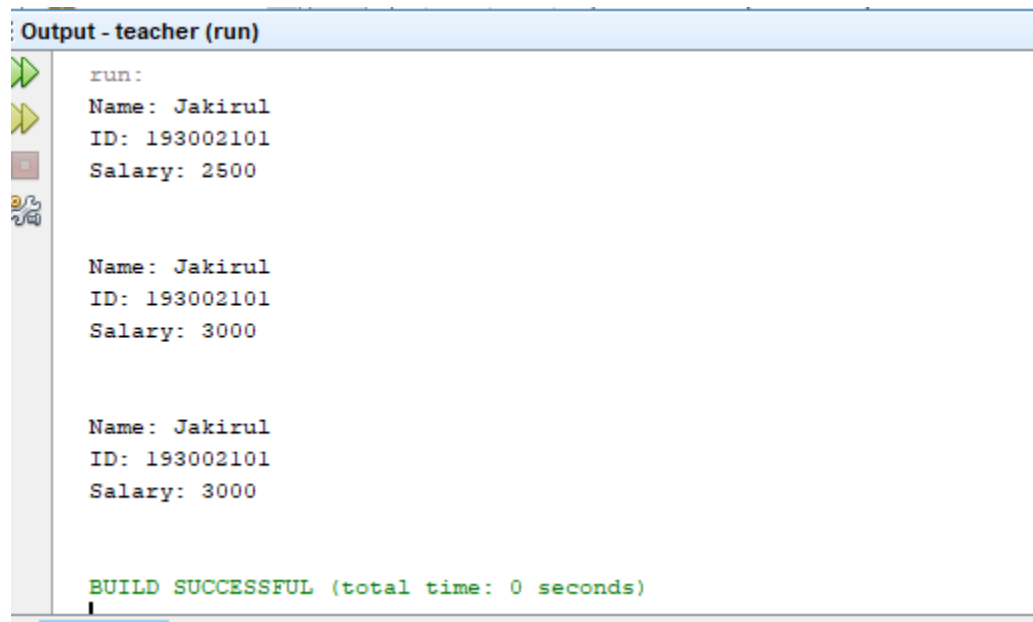
```java
Teacher one = new Teacher();

one.display(one);

Teacher two = new Teacher("Jakirul",193002101,3000);

two.display(two);


Teacher three = new Teacher(two);

three.display(three);
    }
}
```

output:

```
Output - teacher (run)
    run:
    Name: Jakirul
    ID: 193002101
    Salary: 2500


    Name: Jakirul
    ID: 193002101
    Salary: 3000


    Name: Jakirul
    ID: 193002101
    Salary: 3000


    BUILD SUCCESSFUL (total time: 0 seconds)
```

Discussion:

This program will help us to build up the basics foundation about object oriented programming. Main class teacher i declare and member name , id, salary . But repeatedly shows compiler error. Then let's create two constructor with parameter. Then change the values. And finally compiler run and give the output.