

NAME – ABHINAV CHAUHAN

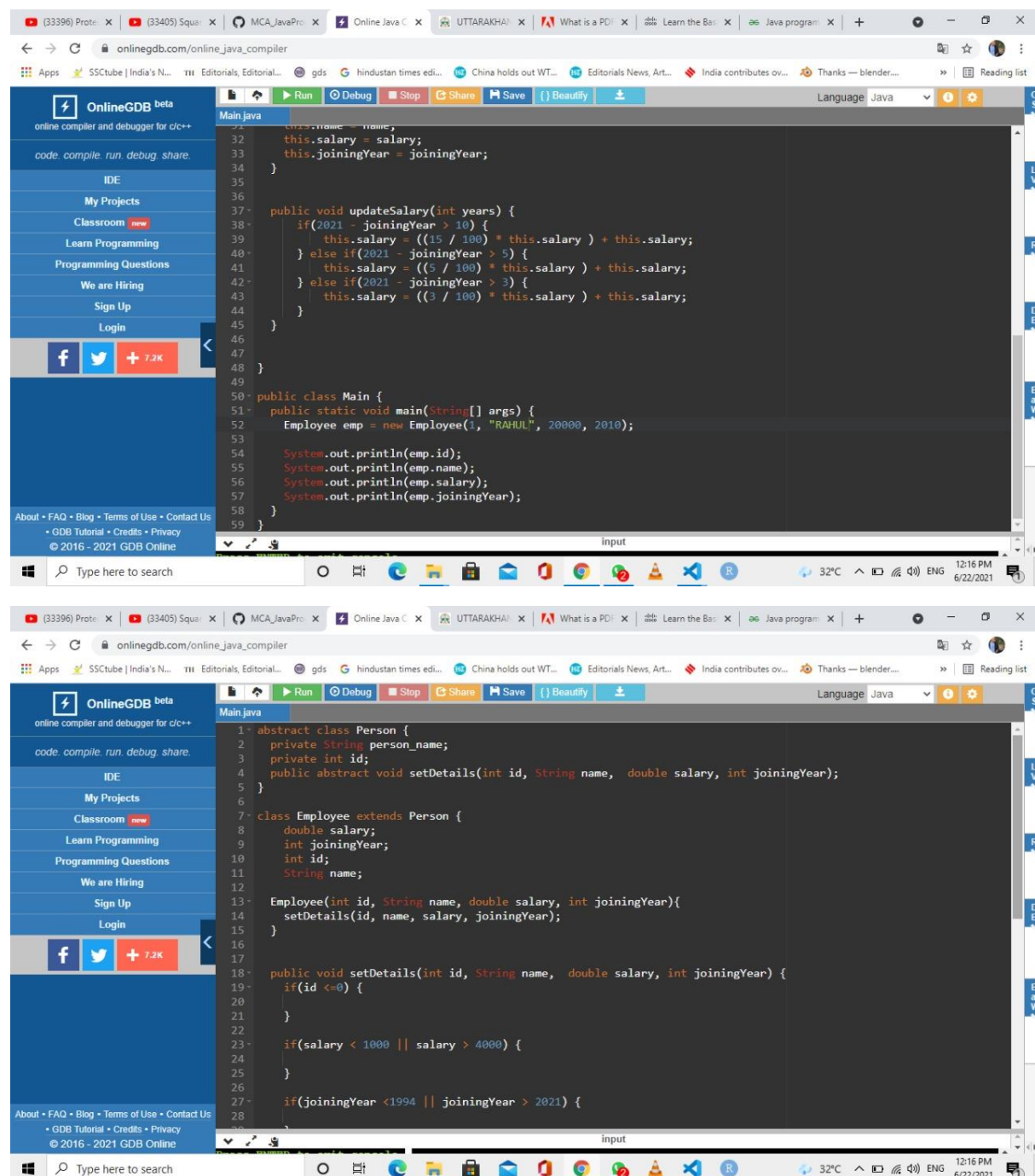
COURSE – MCA

SECTION – A

ROLL NO. – 2001004

STUDENT ID – 20561024

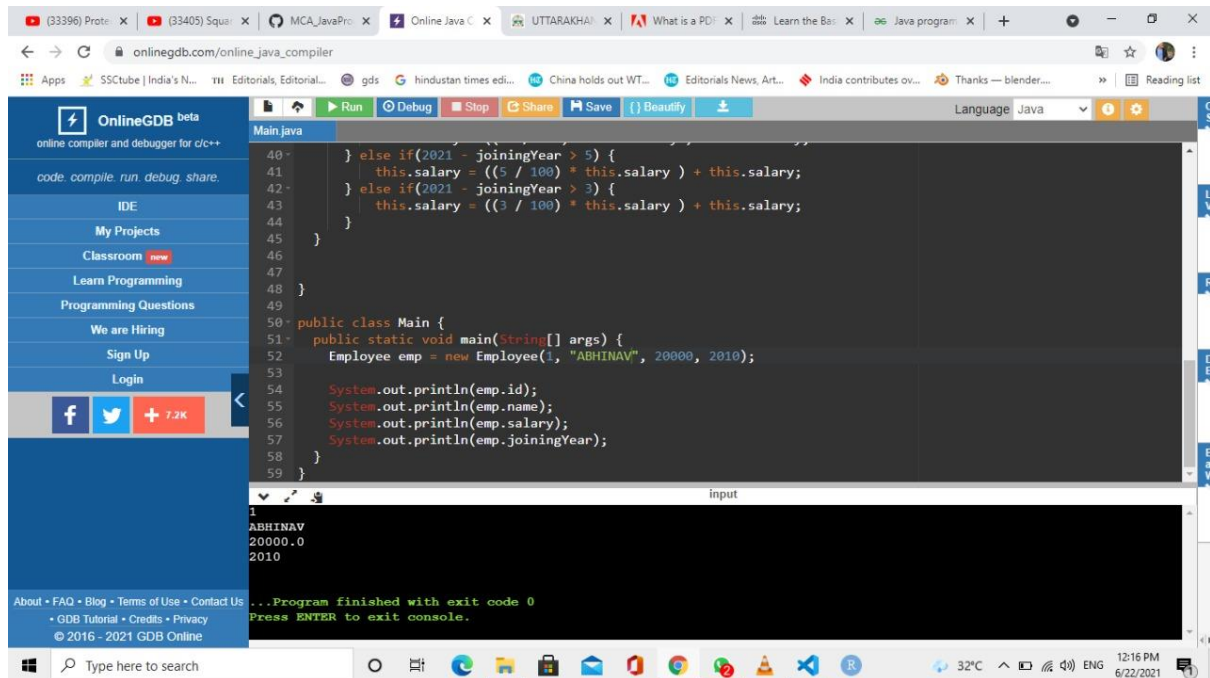
Q2 –



```
31- this.name = name;
32- this.salary = salary;
33- this.joiningYear = joiningYear;
34- }
35-
36-
37- public void updateSalary(int years) {
38-     if(2021 - joiningYear > 10) {
39-         this.salary = ((15 / 100) * this.salary) + this.salary;
40-     } else if(2021 - joiningYear > 5) {
41-         this.salary = ((5 / 100) * this.salary) + this.salary;
42-     } else if(2021 - joiningYear > 3) {
43-         this.salary = ((3 / 100) * this.salary) + this.salary;
44-     }
45- }
46-
47- }
48-
49-
50- public class Main {
51-     public static void main(String[] args) {
52-         Employee emp = new Employee(1, "RAHUL", 20000, 2010);
53-
54-         System.out.println(emp.id);
55-         System.out.println(emp.name);
56-         System.out.println(emp.salary);
57-         System.out.println(emp.joiningYear);
58-     }
59- }
```

```
1- abstract class Person {
2-     private String person_name;
3-     private int id;
4-     public abstract void setDetails(int id, String name, double salary, int joiningYear);
5- }
6-
7- class Employee extends Person {
8-     double salary;
9-     int joiningYear;
10-    int id;
11-    String name;
12-
13-    Employee(int id, String name, double salary, int joiningYear){
14-        setDetails(id, name, salary, joiningYear);
15-    }
16-
17-
18-    public void setDetails(int id, String name, double salary, int joiningYear) {
19-        if(id <= 0) {
20-
21-        }
22-
23-        if(salary < 1000 || salary > 4000) {
24-
25-        }
26-
27-        if(joiningYear < 1994 || joiningYear > 2021) {
28-
29-        }
30-    }
31- }
```

Output:



The screenshot shows the OnlineGDB website interface. The browser's address bar displays 'onlinegdb.com/online_java_compiler'. The left sidebar contains navigation links such as 'IDE', 'My Projects', 'Classroom', 'Learn Programming', 'Programming Questions', 'We are Hiring', 'Sign Up', and 'Login'. The main area features a code editor with a Java program. The code defines an 'Employee' class with attributes 'id', 'name', 'salary', and 'joiningYear', and a 'Main' class with a 'main' method that creates an 'Employee' object and prints its details. The output console at the bottom shows the program's execution results, including the employee's name, salary, and joining year, followed by a message indicating the program finished successfully.

```
40- } else if(2021 - joiningYear > 5) {
41-     this.salary = ((5 / 100) * this.salary) + this.salary;
42- } else if(2021 - joiningYear > 3) {
43-     this.salary = ((3 / 100) * this.salary) + this.salary;
44- }
45- }
46-
47-
48- }
49-
50- public class Main {
51-     public static void main(String[] args) {
52-         Employee emp = new Employee(1, "ABHINAV", 20000, 2010);
53-
54-         System.out.println(emp.id);
55-         System.out.println(emp.name);
56-         System.out.println(emp.salary);
57-         System.out.println(emp.joiningYear);
58-     }
59- }
```

input

```
1
ABHINAV
20000.0
2010

...Program finished with exit code 0
Press ENTER to exit console.
```