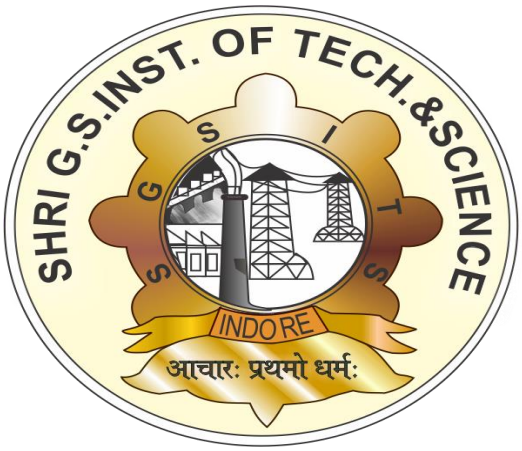
Online Test System



Department of Computer Technology & Applications

SHRI G.S. INSTITUTE OF TECHNOLOGY AND SCIENCE

INDORE (M.P.)

Submitted To:

Mr. Upendra singh

Submitted By:

Smita Malvi

(0801CA191029)

Recommendation :-

The project report entitled **“ Online Test System** ” submitted by **Smita Malvi** student of MCA second year in the session 2019-22, towards partial fulfillment of the degree of Master of Computer Applications of Rajiv Gandhi Proudyogiki Vishwavidhyalaya, Bhopal, is a satisfactory account of {his/her/their} work and is recommended for the award of degree.

Mr. Upendra Singh
(Project Guide)
Department of Comp. Tech. & Application

Index

Acknowledgement

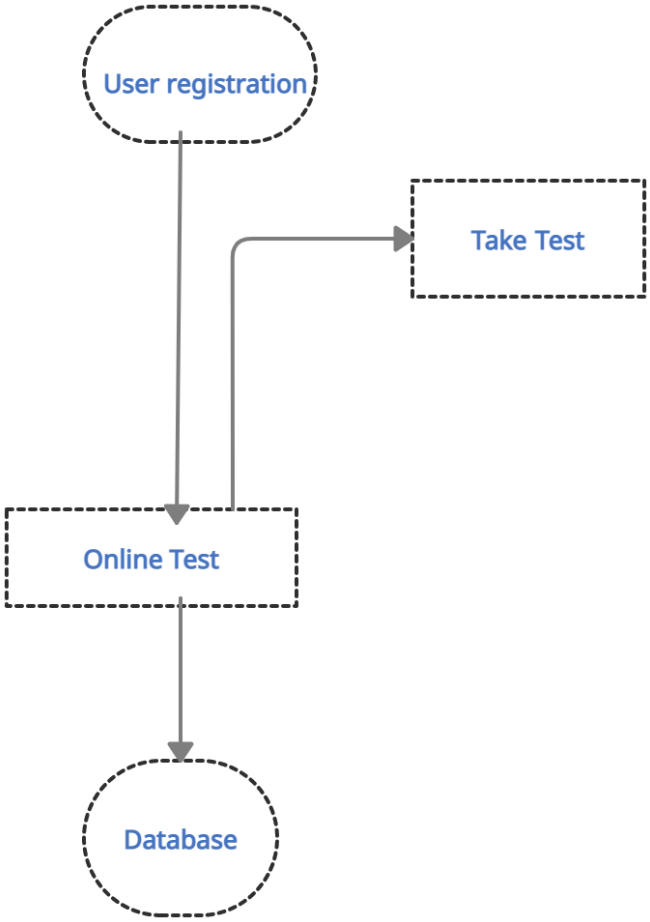
We are heartily pleased to acknowledge all those people who have helped us in the successful completion of this project. With great pleasure we express our heartfelt gratitude to our esteemed guide, Mr Upendra Singh Lecturer Department of Computer Technology & Application, S.G.S.I.T.S. Indore. His persistent encouragement, perpetual motivation, everlasting patience and valuable technical inputs in discussions have enabled the successful completion of this project. We sincerely wish to express our gratitude to all the members of staff of M.C.A. who have extended their cooperation at all times and have contributed in their own way in developing the project. Successful

completion of a project is not an individual effort. It is an outcome of the cumulative effort of a number of persons, each having his own importance to the objective. We are thankful to our parents for being a constant source of encouragement in all our endeavors. Indeed it is their support that helps us through the ups and downs of life. The support and suggestion of our friends are worth appreciation and thankfulness. A blend of gratitude, pleasure, great satisfaction and indebtedness is what we feel to convey to all those who have directly or indirectly contributed to the successful completion of our project work.

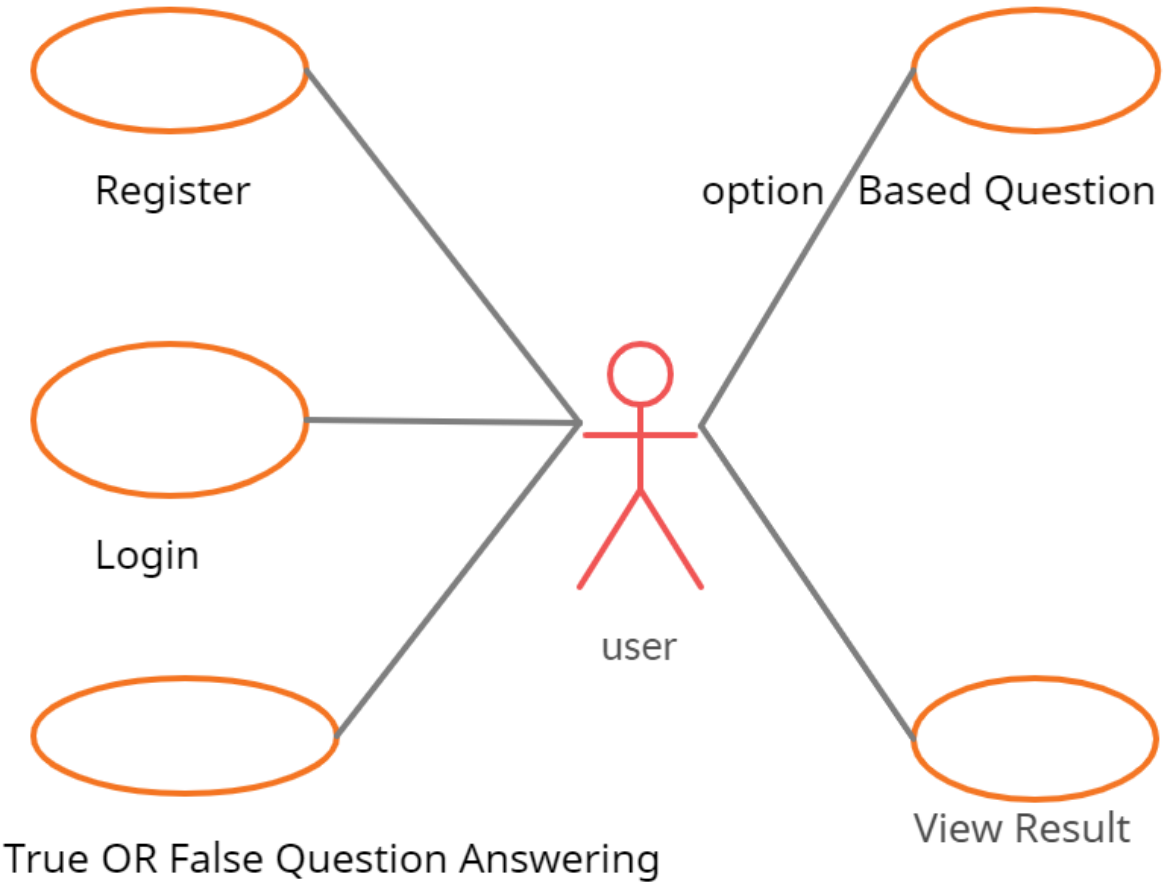
Introduction:-

In my project ”**Online Test System**”, first we show the login and register options ,if the user not registered he can’t login .If he is registered he can’t login without valid credentials. After that the quiz starts and for each question 4 options are given and we ask the user to select any one of the four .At the end a list of the answers showing whether he has choosen the right or wrong option is shown.

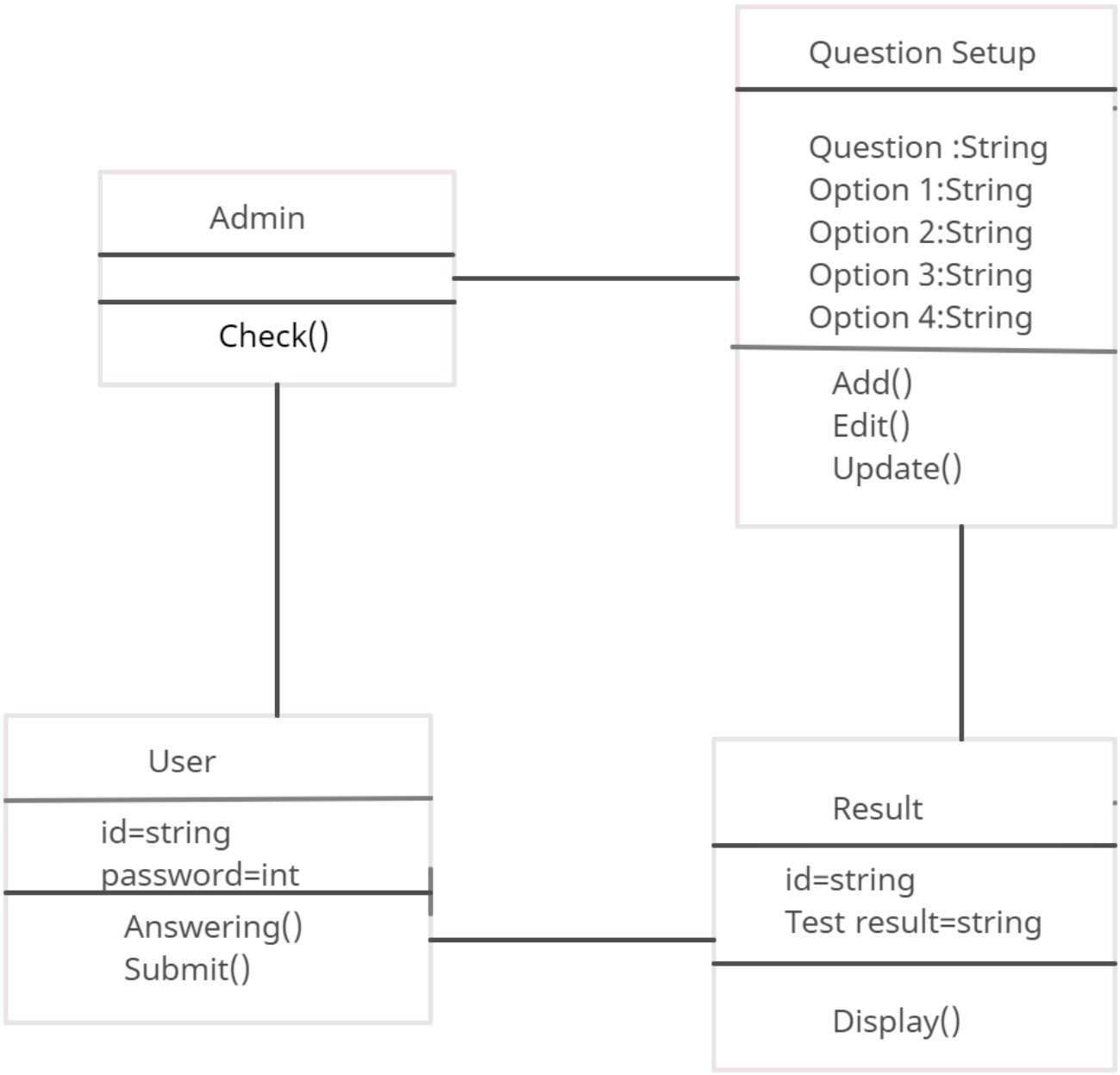
Data Flow Diagram :-



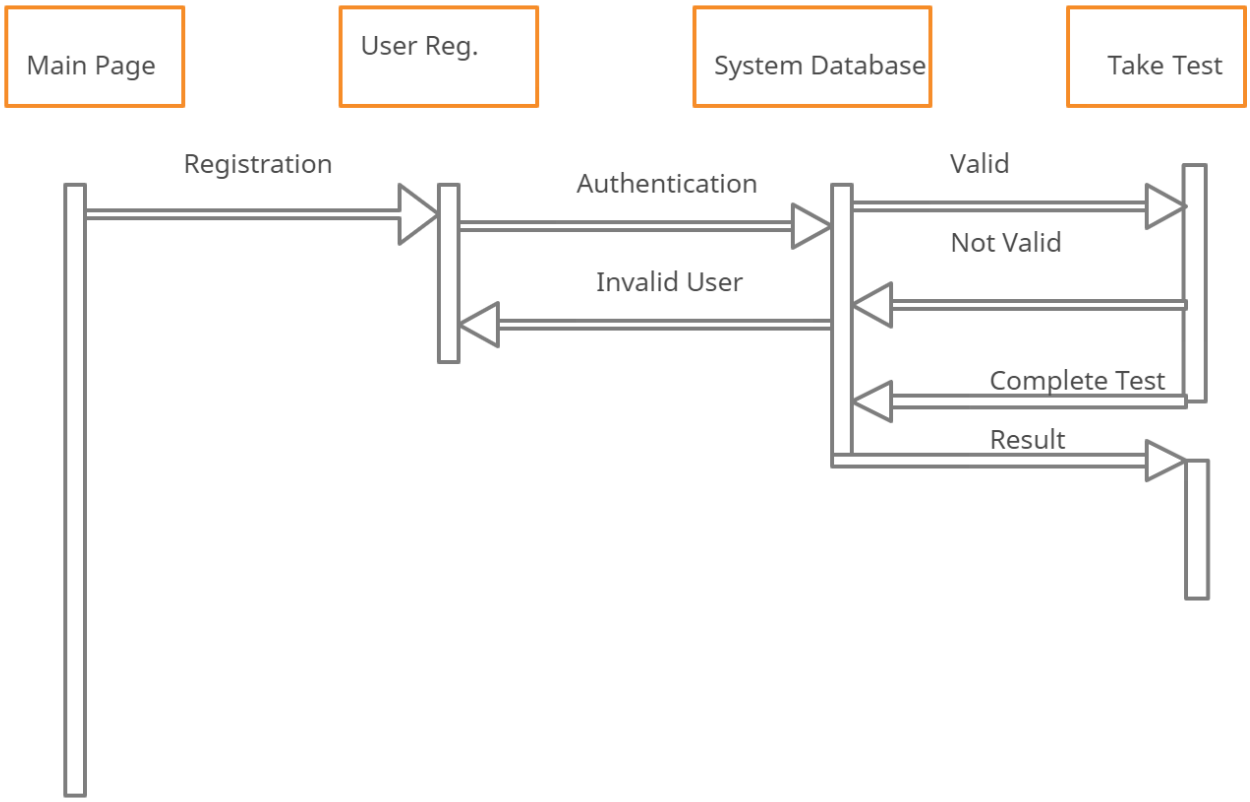
Use case Diagram:-



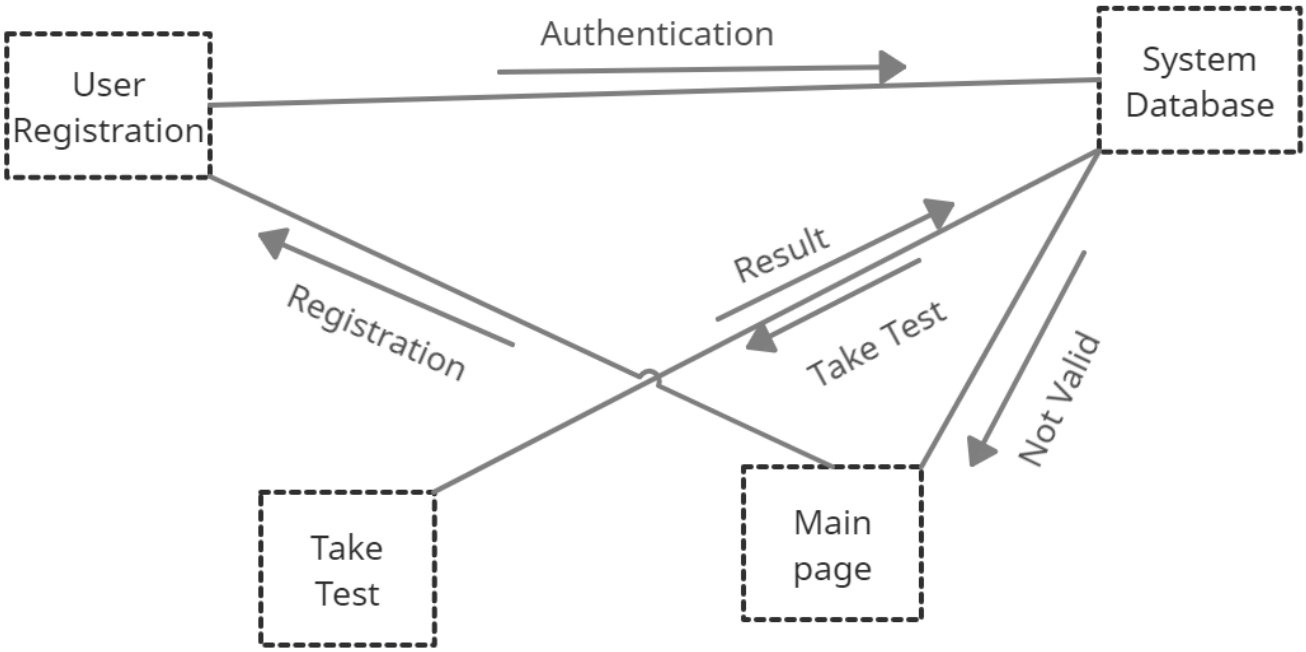
Class Diagram:-



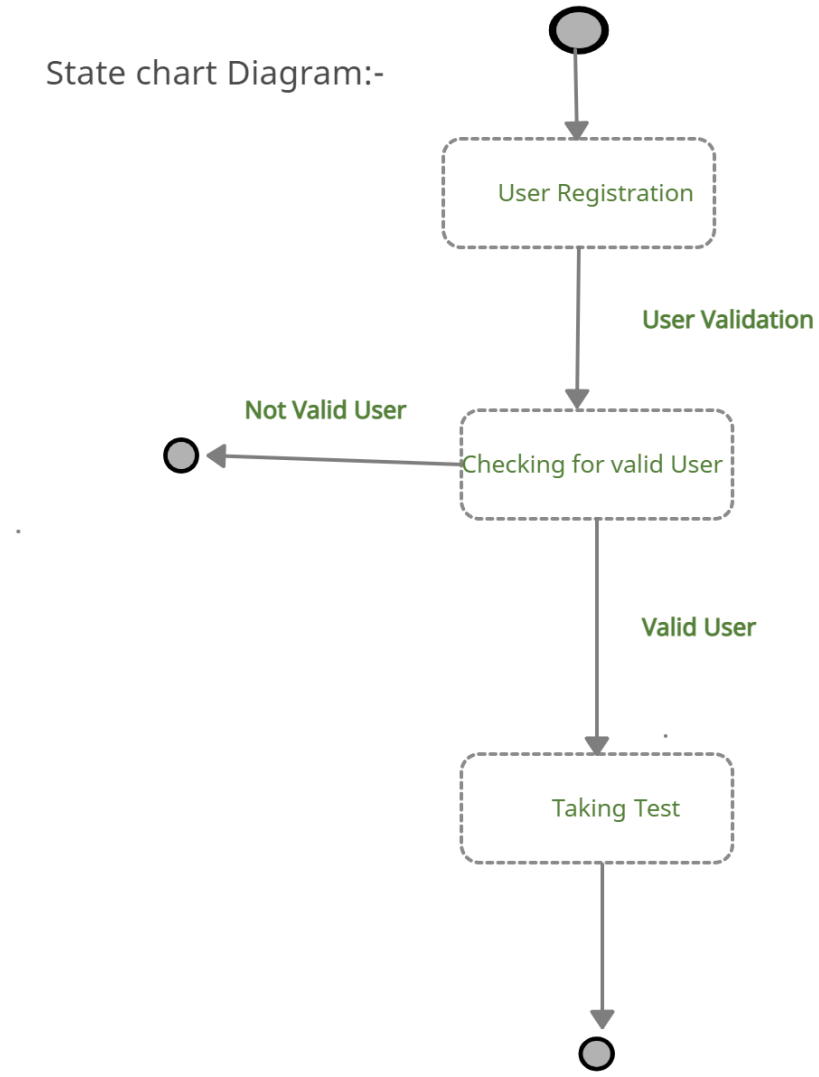
Sequence Diagram:-



Collaboration Diagram:-



State chart Diagram:-



Code Snippet:

```
package test;
import read.*;
import write.*;
import java.util.Scanner;
import Authentication.*;
public class Main {
   static String getInput (String prompt){
      System.out.print(prompt);
      Scanner console = new Scanner(System.in);
      return console.nextLine();
   }
   public static void main(String[] args) {
       String opt = getInput("1.Register New User\n" +
```

```
            "2.Login Existing User\n");
        switch (opt) {
            case "1": {
                NewUserRegister obje = new NewUserRegister();
                obje.register();
            }
            break;
            case "2": {
                Login objec = new Login();
                int y = objec.log();
                if (y == 1) {
                    String str = "CBBDADBBDA";
                    char[] ch = str.toCharArray();
                    for (int i = 0; i < str.length(); i++) {

                        read obj = new read();
                        obj.Read(i + 1);
                        String Ans = getInput("Please choose between A B                                                C or D : ");
                        char c = Ans.charAt(0);
                        if (c == ch[i]) {
                            write1 obj2 = new write1();
                            obj2.write_answer();
                        } else {
                            write2 obj3 = new write2();
                            obj3.write_answer();
                        }
                    }
                    Ans_read obj = new Ans_read();
                    obj.Read();

                } else {
                    System.out.println("Fail");
                }
            }
            break;
        }

    }
}

package read;
import java.io.File;
import java.io.FileNotFoundException;
import java.util.Scanner;

public class read {
    public void Read(int Que) {
        try {
            switch (Que) {
                case 1:
                    {
                    File myObj = new File("C:Ques1.txt");
                    Scanner myReader = new Scanner(myObj);
                    while (myReader.hasNextLine()) {
                        String data = myReader.nextLine();
```

```
            System.out.println(data);
        }
        myReader.close();
    }
    break;
    case 2:
    {
        File myObj = new File("C:Ques2.txt");
        Scanner myReader = new Scanner(myObj);
        while (myReader.hasNextLine()) {
            String data = myReader.nextLine();
            System.out.println(data);
        }
        myReader.close();
    }
    break;
    case 3:
    {
        File myObj = new File("C:Ques3.txt");
        Scanner myReader = new Scanner(myObj);
        while (myReader.hasNextLine()) {
            String data = myReader.nextLine();
            System.out.println(data);
        }
        myReader.close();
    }
    break;
    case 4:
    {
        File myObj = new File("C:Ques4.txt");
        Scanner myReader = new Scanner(myObj);
        while (myReader.hasNextLine()) {
            String data = myReader.nextLine();
            System.out.println(data);
        }
        myReader.close();
    }
    break;
    case 5:
    {
        File myObj = new File("C:Ques5.txt");
        Scanner myReader = new Scanner(myObj);
        while (myReader.hasNextLine()) {
            String data = myReader.nextLine();
            System.out.println(data);
        }
        myReader.close();
    }
    break;
    case 6:
    {
        File myObj = new File("C:Ques6.txt");
        Scanner myReader = new Scanner(myObj);
        while (myReader.hasNextLine()) {
```

```
            String data = myReader.nextLine();
            System.out.println(data);
        }
        myReader.close();
    }
    break;
    case 7:
    {
        File myObj = new File("C:Ques7.txt");
        Scanner myReader = new Scanner(myObj);
        while (myReader.hasNextLine()) {
            String data = myReader.nextLine();
            System.out.println(data);
        }
        myReader.close();
    }
    break;
    case 8:
    {
        File myObj = new File("C:Ques8.txt");
        Scanner myReader = new Scanner(myObj);
        while (myReader.hasNextLine()) {
            String data = myReader.nextLine();
            System.out.println(data);
        }
        myReader.close();
    }
    break;
    case 9:
    {
        File myObj = new File("C:Ques9.txt");
        Scanner myReader = new Scanner(myObj);
        while (myReader.hasNextLine()) {
            String data = myReader.nextLine();
            System.out.println(data);
        }
        myReader.close();
    }
    break;
    case 10:
    {
        File myObj = new File("C:Ques10.txt");
        Scanner myReader = new Scanner(myObj);
        while (myReader.hasNextLine()) {
            String data = myReader.nextLine();
            System.out.println(data);
        }
        myReader.close();
    }
    break;
    default:
        System.out.println("Question does not exists.");

}
```

```
    } catch (FileNotFoundException e) {
      System.out.println("An error occurred.");
      e.printStackTrace();
    }
  }
}
```

```
package create;
import java.io.File;
import java.io.IOException;

class CreateFile {
  public static void main(String[] args) {
    try {
      File myObj = new File("Password.txt");
      if (myObj.createNewFile()) {
        System.out.println("File created: " + myObj.getName());
      } else {
        System.out.println("File already exists.");
      }
    } catch (IOException e) {
      System.out.println("An error occurred.");
      e.printStackTrace();
    }
  }
}
```

```
package write;
import java.io.*;
public class write1 {
  public static void appendStrToFile(String fileName,
                     String str)
  {
    try {

      // Open given file in append mode.
      BufferedWriter out = new BufferedWriter(
          new FileWriter(fileName, true));
      out.write(str);
      out.close();
    }
    catch (IOException e) {
      System.out.println("exception occoured" + e);
    }
  }
  public void write_answer() {
    {
      String fileName = "C:Answer.txt";
      String str = "Right Answer\n";
      appendStrToFile(fileName, str);
    }
  }
```

```
}



package Authentication;
import java.io.File;
import java.io.FileNotFoundException;
import java.util.Scanner;

public class Login {
   public int log() {
      try {
         String Ans = getInput("Enter UserName:");
         File myObj = new File("C:UserName.txt");
         Scanner myReader = new Scanner(myObj);
         int count = 0;
         while (myReader.hasNextLine()) {
            count = count+1;
            String data = myReader.nextLine();
            int res = data.compareTo(Ans);
            if (res==0){
               try {
                  String Ans1 = getInput("Enter Password:");
                  File myObj1 = new File("C:Password.txt");
                  Scanner myReader1 = new Scanner(myObj1);
                  int count1 = 0;
                  while (myReader1.hasNextLine()) {
                     count1 = count1 +1;
                     String data1 = myReader1.nextLine();
                     int res1 = data1.compareTo(Ans1);
                     if(res1==0 && count==count1 ){
                        return 1;
                     }else {
                        if(myReader1.hasNextLine()== false){
                           System.out.println("Wrong Password");
                           return 0;

                                                      }
                     }
                  }
                  myReader1.close();

               } catch (FileNotFoundException e) {
                  System.out.println("An error occurred.");
                  e.printStackTrace();
               }
            }else {
               if(myReader.hasNextLine()== false){
                  System.out.println("Wrong UserName");
               }
            }
         }
         myReader.close();
      } catch (FileNotFoundException e) {
         System.out.println("An error occurred.");
```

```
            e.printStackTrace();
        }
        return 0;
    }
    static String getInput(String prompt) {
        System.out.print(prompt);
        Scanner console = new Scanner(System.in);
        return console.nextLine();
    }
}
package Authentication;

import java.io.BufferedWriter;
import java.io.FileWriter;
import java.io.IOException;
import java.util.Scanner;

public class NewUserRegister {
    public int register() {
        String Ans = getInput("Create UserName:");
        String fileName = "UserName.txt";
        String str = Ans;
        appendStrToFile(fileName, str);

        String Ans1 = getInput("Create Password:");
        String fileName1 = "Password.txt";
        String str1 = Ans1;
        appendStrToFile(fileName1, str1);
        return 1;

    }

    static String getInput(String prompt) {
        System.out.print(prompt);
        Scanner console = new Scanner(System.in);
        return console.nextLine();
    }

    public static void appendStrToFile(String fileName,
                                       String str) {
        try {

            // Open given file in append mode.
            BufferedWriter out = new BufferedWriter(
                    new FileWriter(fileName, true));
            out.write(str);
            out.newLine();
            out.close();
        } catch (IOException e) {
            System.out.println("exception occoured" + e);
        }

    }
}
```

Output:-

```
"C:\Program Files\Java\jdk1.8.0_202\bin\java.exe" ...
1.Register New User
2.Login Existing User
2
Enter UserName:Smita
Enter Password:12345
Que-1. Which of the following is not a Java features?
   A. Dynamic
   B. Architecture Neutral
   C. Use of pointers
   D. Object-oriented
Please choose one option from A,B,C or D : A
Que-2.Which of the following is a marker interface?
          A.  Runnable interface
          B.  Remote interface
          C.  Readable interface
          D.  Result interface
Please choose one option from A,B,C or D : B
Que-3.What is the initial quantity of the ArrayList list?
 A.    5
 B.    10
 C.    0
 D.   100
Please choose one option from A,B,C or D : C
```

```
Que-4. Which of the following is a mutable class in java?
        A.    java.lang.String
        B.    java.lang.Byte
        C.    java.lang.Short
        D.    java.lang.StringBuilder
Please choose one option from A,B,C or D : D
Que-5.What is meant by the classes and objects that dependents on each other?
      A.     Tight Coupling
      B.     Cohesion
      C.     Loose Coupling
      D.     None of the above
Please choose one option from A,B,C or D : A
Que-6. In java, jar stands for_____.
       A.     Java Archive Runner
       B.     Java Application Resource
       C.     Java Application Runner
       D.     None of the above
Please choose one option from A,B,C or D : A
Que-7. Which keyword is used for accessing the features of a package?
        A.    pakage
        B.    import
        C.    extends
        D.    export
Please choose one option from A,B,C or D : D
```

```
        D.    export
Please choose one option from A,B,C or D : D
Que-8. What is the return type of the hashCode() method in the Object class?
A. object
B. int
C. long
D. void
Please choose one option from A,B,C or D : C
Que-9. What do you mean by nameless objects?
A.   An object created by using the new keyword.
B.   An object of a superclass created in the subclass.
C.   An object without having any name but having a reference.
D.   An object that has no reference.
Please choose one option from A,B,C or D : D
Que-10. Which package contains the Random class?
            java.util package
            java.lang package
            java.awt package
            java.io package
Please choose one option from A,B,C or D : B



Wrong Answer
Right Answer
Wrong Answer
Right Answer
Right Answer
Wrong Answer
Wrong Answer
Wrong Answer
Right Answer
Wrong Answer

Process finished with exit code 0
```