

## **Report**



Session Spring 2022 – BSAI

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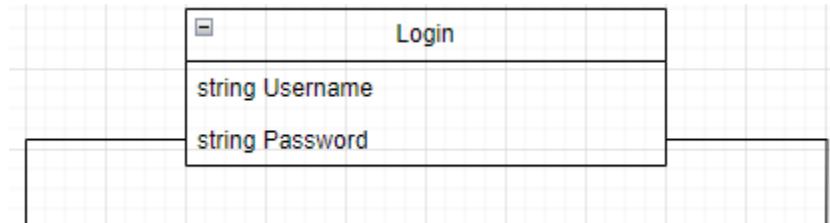
Department of Artificial Intelligence

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National University of Computer and Emerging  
sciences,

FAST

Firstly, the program will give user the choice to login or change the password. I have created a class named Login with two data members, Username and Password.



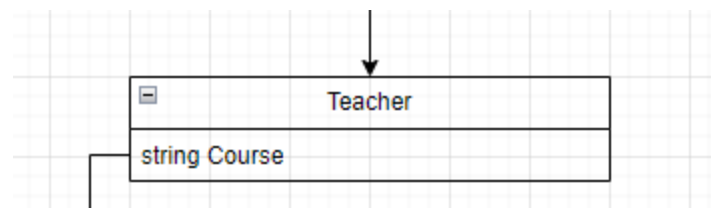
```
Menu for Login
Press 1 to login
Press 2 to change your password
1

Enter your password: Aqw12!
Enter your Username: Amna

Welcome Amna
Teacher Section
```

In this class, the user has to enter his Username, and on the basis of his username, the program will recognize him as a student or a teacher by reading file named "students.csv".

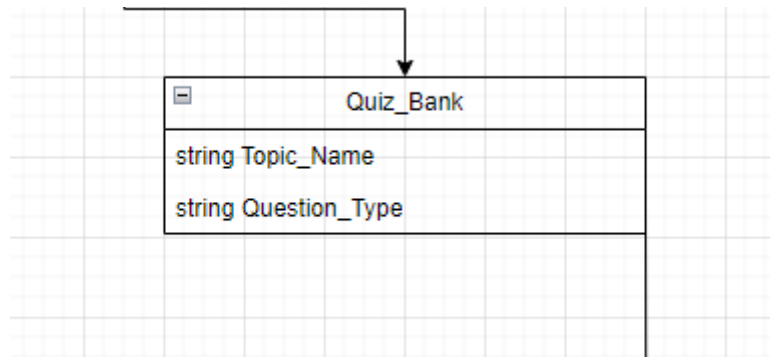
If the user is login as a teacher, there is another class named Teacher in which the user will be given choice to choose whether course he/she wants



to teach.

```
Which course do you like to teach: Data Structures
The course you entered is available
Your course is: Data Structures
```

Whether the course, the teacher has chosen will be checked in the file named "courses.csv". If the course is not available in the given file, the user will be asked again to enter the course until he/she enters a registered



course.

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```
Do You like to Make the Quiz for your Course Data Structures
y

Topics of Data Structures:
1.Linked List
2.Stacks and Queues
3.Trees

Enter any one topic of the following you want to take quiz of: Trees

Enter the Type of Questions you want to ask: MCQS

a5380ee Trees

2efcde9 MCQs Questions

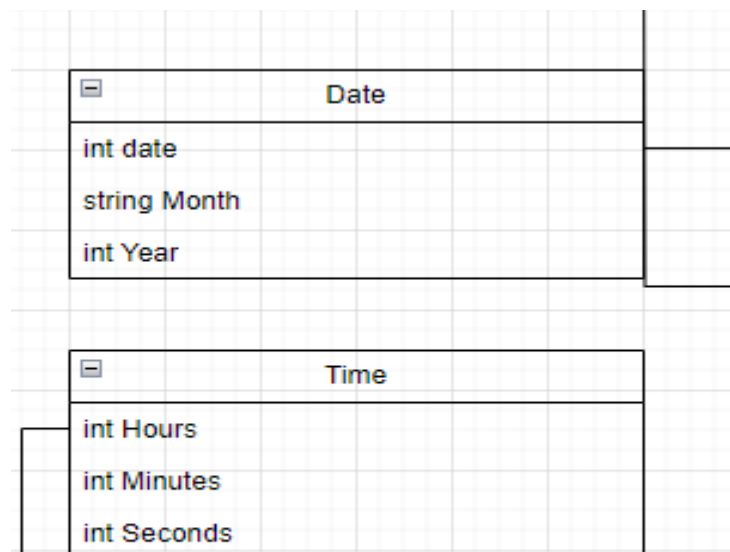
1.What is the maximum number of children that a node in a binary tree can have?
a)0
b)1
c)2
d)3

2.Which of the following is not a type of binary tree?
a)Complete binary tree
b)Balanced binary tree
c)Degenerate binary tree
d)Empty binary tree

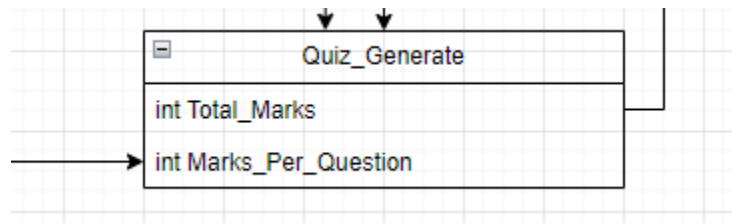
3.Which of the following traversal techniques can be used to produce the reverse of a given binary tree?
a)Pre-order
b)In-order
c)Post-order
d)Level-order
```

Moving on to the next step, Quiz\_Bank class. In this class, the user (teacher) will be given txt files for different courses such as "Programming\_Fundamentals.txt", "Object\_Oriented\_Programming.txt" etc., from which the user will be given option to select any topic to take quiz from. After the teacher will be asked for the type of questions he/she wants to ask in the quiz.

Two new classes are also used named "Date" and "Time" respectively to set the date for the quiz, the starting time of the quiz, and also the ending time of the quiz.



Finally, in the class named Quiz\_Generate, the quiz will generated in which mark will be assigned to each questions and total marks will be displayed on the screen.



```
Enter the marks for each questions: 5

The total marks for the quiz is: 15

Enter the Date you want to conduct the quiz: 20
Enter the Month you want to conduct the quiz: May
Enter the Year you want to conduct the quiz: 2020

Enter the Hour you want to start the quiz: 12
Enter the Minutes you want to start the quiz: 15
Enter the Seconds you want to start the quiz: 0

Enter the Hour you want to end the quiz: 12
Enter the Minutes you want to end the quiz: 45
Enter the Seconds you want to end the quiz: 0

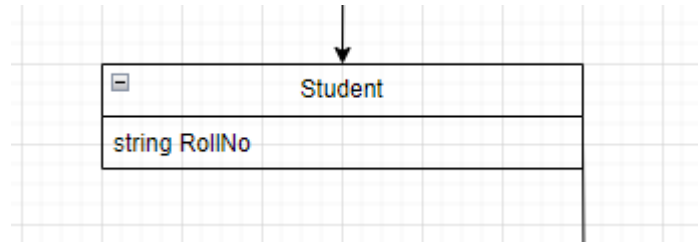
The Date for the Quiz is:
20 May 2020

The Starting Time for the Quiz is:
12 : 15 : 0

The Ending Time for the Quiz is:
12 : 45 : 0
```

Also, the teacher will assign the date, starting time and ending time of the quiz.

But if the user which is logged is a student, information will be displayed on the screen including their roll no, the courses in which they are registered, and the courses in which they are not registered.



The quiz will be conducted in which, the program will ask the user to input the answers of the questions as asked. The program will display the answers and will compare the answers.

The student will be asked to enter the starting time, ending, time and the submitted time of the quiz. If the student submit the quiz after the ending time of the quiz, the quiz of the student will not be submitted. If the quiz is submitted on time, the program will display the result.