ACHARYA INSTITUTE OF TECHNOLOGY

Soladevanahalli, Bangalore-560107

Department of MCA
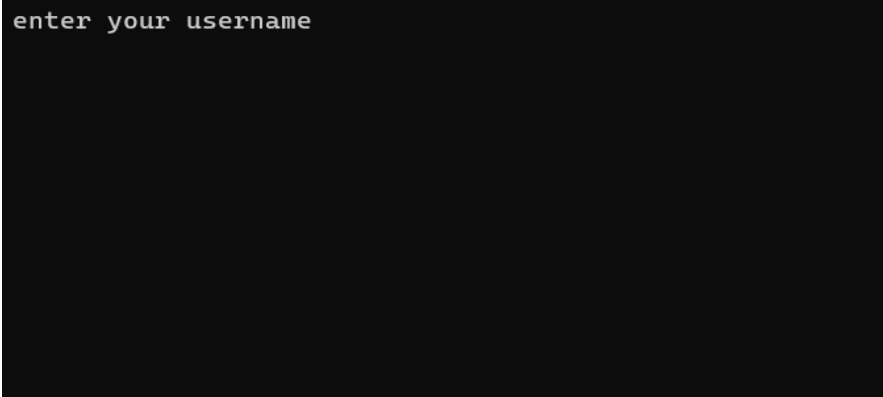
Report on Mini Project

(**INTERACTIVEQUIZ**)

By: Nitish Kumar

INTRODUCTION

This mini project "interactivequiz" is created using C programming language in codeblocks IDE and it interact with the user while user is attempting quiz. Inside quiz there are various subjects available and in each subjects, there are list of ten questions available for the user to attempt. User can choose any subject in any order and also save progress report permanently in file.
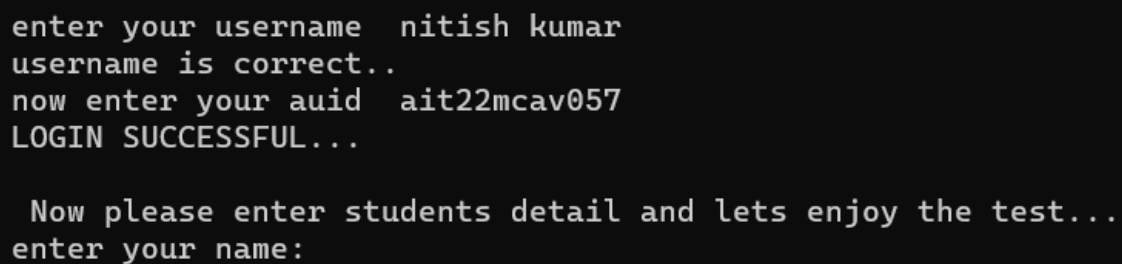
How it works

After clicking on the exe file this screen will appear where user have to login using certain username and auid.

```
enter your username
```

Login will be successful only after entering correct credentials.

```
enter your username  nitish kumar
username is correct..
now enter your auid  ait22mcav057
LOGIN SUCCESSFUL...

 Now please enter students detail and lets enjoy the test...
enter your name:
```

After successful login it will ask user to enter some details.

```
enter your username  nitish kumar
username is correct..
now enter your auid  ait22mcav057
LOGIN SUCCESSFUL...

 Now please enter students detail and lets enjoy the test...
enter your name:
nitish
name=nitish
enter your age21
press any key to start the QUIZ
```

While entering name, it will accept only characters and in age it will take only numbers. After this user are ready to attempt the test.

```
----------------------------------------
WELCOME TO INTERACTIVE QUIZ
----------------------------------------
Instructions:-*list of 10 questions per subjects are given below.
             *total 40 questions will be there.
             *each question carries one marks.
             *enter your option carefully after reading every questions.
             *once entered you can't change your options.
             *enter character either 1 or 2 or 3 or 4 only for answering questions.
             *there is no negative marking.
             *at the end of the test your score with grade shown.

 enter subject code you want to go first

 code 1: for Operating System
 code 2: for Database Management System
 code 3: for Data Structure
 code 4: for Basic C programming
 code 5: for showing total marks
 code 6: for saving progress in file
 code 7: for exit test
```

Now above window will open where certain instructions will be displayed before jumping to the test and some options will be shown which will take one's to that subject module.

User can choose any subject in any order but it will lock the user to attempt the same subject twice after attempting any subject. That means user cannot re-attempt the same subject after already attempted the questions of that subject.

```
----------------------------------------
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----------------------------------------
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              *there is no negative marking.
              *at the end of the test your score with grade shown.

  enter subject code you want to go first

  code 1: for Operating System
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  WELCOME TO OPERATING SYSTEM QUIZ
  ------------------------------------------------

  (1) Which of the following is not an operating system?
   1)Windows 2)Linux 3)Oracle 4)DOS

  your option: 3
  correct option is: 3

  (2) What is the maximum length of the filename in DOS?
   1)four 2)five 3)eight 4)twelve

  your option: 3
  correct option is: 3

  (3)When was the first operating system developed?
   1)1948 2)1949 3)1950 4)1951
```

After user enter in any subject, some questions will appear and user's options with correct answer will be shown.

```
----------------------------------------
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----------------------------------------
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look like you have already completed this ...try another subject
```

Lock user to enter again after already attempted questions from that subject.

```
----------------------------------------
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----------------------------------------
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 enter subject code you want to go first

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 code 7: for exit test
-------------------------------------------------
Name :nitish
Age :21
your total score is 6/10
grade FAIL   PLEASE STUDY AND WORK HARD...
-------------------------------------------------
```

User can check progress any time.

```
(8) Who defines the user-defined function?
 1)Compiler 2)Computer 3)Compiler Library 4)Users

your option: 2
correct option is: 4

(9)Which of the following functions is already declared in the header file?
 1)User-define function 2)Built-in function 3)C function 4)none of above

your option: 3
correct option is: 2

(10) Which of the following operations cannot be performed in file handling?
 1)Open the file 2)Read the file 3)To write a file 4)none of the above

your option: 2
correct option is: 4

congrats you have successfully completed this module:try another subject

look like you have completed all 40 questions...CONGRATS...
press any key and check your score by enetering 5
 after that you can exit this test by entering 6
```

After going through all 40 questions, it will prompt the user to follow next instructions.

```
----------------------------------------
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----------------------------------------
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             *once entered you can't change your options.
             *enter character either 1 or 2 or 3 or 4 only for answering questions.
             *there is no negative marking.
             *at the end of the test your score with grade shown.

 enter subject code you want to go first

 code 1: for Operating System
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 code 6: for saving progress in file
 code 7: for exit test
----------------------------------------------
Name :nitish
Age :21
your total score is 14/40
grade FAIL   PLEASE STUDY AND WORK HARD...
----------------------------------------------
```

This will be the user's final score after attending all 40 questions and user cannot attempt the test again until exit and open the application again.

```
------------------------------------
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------------------------------------
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 code 3: for Data Structure
 code 4: for Basic C programming
 code 5: for showing total marks
 code 6: for saving progress in file
 code 7: for exit test
saving progress wait...
saved....wait for few second and press any key..
```

User can save progress in file on hard disk using code 6. This will permanently save progress in file and user can view it anytime. Snapshot is shown below:

```
1
2  Name= nitish
3  Age= 21
4  Marks= 14
5  Total Marks= 40
6
```

User can exit from this test by entering 7.

CONCLUSION

Overall this project is working as I had imagined and anyone can attempt this to test his/her knowledge in core subjects.

MY THOUGHTS

I have done some mini projects in the past but this is the first project in which i included multiple lines of code. This boosted my confidence to do more projects in the future.

While working on this project i found few challenges during the testing phase and while fixing the bugs.
During the process, I also learnt and explored many new concepts and topics.

I also got real time feedback from my friends which helped me to make the project better. I am very grateful that I got this opportunity to do something which I enjoyed and the happiness that I achieved after successfully making it, is so great.

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AUID: AIT22MCAV057