



Green University of Bangladesh

Department of Computer Science and Engineering (CSE)

Faculty of Sciences and Engineering
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Course Title: Structured Programming Lab
Course Code: CSE 104 Section: 222DC

Lab Project Report Name: Quiz Game

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[For Teachers use only: **Don't Write Anything inside this box**]

Lab Project Status

Marks:

Signature:

Comments:

Date:

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Chapter 1

Introduction

1.1 Introduction

A quiz game is a form of entertainment in which the player's general or specific knowledge is tested through a series of questions.

It has a quiz part that will increase a user knowledge. This game is fun to play and anyone can play the game.

1.2 Design Goals/Objective

1. Testing identifies gaps in knowledge.
2. This quiz game develops and facilitates our learning.

Chapter 2

Implementation of the Project

2.1 source code

```
#include <stdio.h>
#include <conio.h>
#include <stdlib.h>
int main()
{
    FILE *file;
    struct score
    {
        char name[30];
        int result;
    };
    struct score s;
```

```

int n, ans, count, right, wrong;
char ch, key;
printf("\t\t\t\t\t Welcome to the QUIZ GAME\n\t\t\t\t\t-----
-----\n\t\t\t\t\tThe quiz has 10 very basic questions on the General
knowledge.\n\t\t\t\t\tYou will get 01 points for answering each question
correctly.\n");
printf("\nCHOOSE YOUR FAVOURITE AMONG THE THREE OPTIONS :");

start:
printf("\n\n 1. Start Quiz\n 2. Show Scoreboard\n 3. Quit\n\n");
scanf("%d", &n);
switch (n)
{
case 1:

    file = fopen("Quiz score.txt", "a"); // Opening file to store data
    do
    {
        count = 0;
        right = 0;
        wrong = 0;

        q1:
        printf("\n[1] Dhaka is capital of Bangladesh. On which river it is
situated?\n\n (1) Padma\n (2) Buriganga\n (3) Jamuna\n (4) Maghna\n");
        printf("\n\tYour Answer (1,2,3 or 4): ");
        scanf("%d", &ans);
        if (ans == 2)
        {
            printf("\n\tCorrect!\n");
            right++; // Measuring number of correct answers

            printf("\nPress any key to move to the next quiz\n");
            getch();
            system("CLS");
        }
        else if (ans == 1 || ans == 3 || ans == 4)
        {
            printf("\n\tWrong!\n\tRight answer: (2)\n");
            wrong++;

            printf("\nPress any key to move to the next quiz\n");
            getch();
            system("CLS"); // Measuring number of incorrect answers
        }
        else
        {
            printf("\nYou entered invalid answer. Enter the answer
again:\n");
            goto q1;
        }
        count++; // Measuring number of questions

        q2:
        printf("\n[2] Which river flows across the India-Bangladesh
border ?\n\n (1) Hooghly River\n (2) Brahmaputra River\n (3) Ichamati River\n
(4) Surma River\n");
        printf("\n\tYour Answer (1,2,3 or 4): ");

```

```

        scanf("%d", &ans);
    if (ans == 3)
    {
        printf("\n\tCorrect!\n");
        right++;

        printf("\nPress any key to move to the next quiz\n");
        getch();
        system("CLS");
    }
    else if (ans == 1 || ans == 2 || ans == 4)
    {
        printf("\n\tWrong!\nRight answer: (3)\n");
        wrong++;

        printf("\nPress any key to move to the next quiz\n");
        getch();
        system("CLS");
    }
    else
    {
        printf("\nYou entered invalid answer. Enter the answer
again:\n");
        goto q2;
    }
    count++;

    q3:
        printf("\n[3] How many rivers are there in Dhaka?\n
\n\n (1) Six\n (2) Five\n (3) Three\n (4) Four\n");
        printf("\n\tYour Answer (1,2,3 or 4): ");
        scanf("%d", &ans);
    if (ans == 1)
    {
        printf("\n\tCorrect!\n");
        right++;

        printf("\nPress any key to move to the next quiz\n");
        getch();
        system("CLS");
    }

    else if (ans == 2 || ans == 3 || ans == 4)
    {
        printf("\n\tWrong!\nRight answer: (1)\n");
        wrong++;

        printf("\nPress any key to move to the next quiz\n");
        getch();
        system("CLS");
    }

    else
    {
        printf("\nYou entered invalid answer. Enter the answer
again:\n");
        goto q3;
    }
    count++;

```

```

q4:
    printf("\n[4] Which country has the highest population?\n\n (1) India\n (2) China\n (3) United States\n (4) Brazil\n");
    printf("\n\tYour Answer (1,2,3 or 4): ");
    scanf("%d", &ans);
    if (ans == 2)
    {
        printf("\nCorrect!\n");
        right++;

        printf("\nPress any key to move to the next quiz\n");
        getch();
        system("CLS");
    }

    else if (ans == 1 || ans == 3 || ans == 4)
    {
        printf("\nWrong!\nRight answer: (2)\n");
        wrong++;

        printf("\nPress any key to move to the next quiz\n");
        getch();
        system("CLS");
    }

    else
    {
        printf("\nYou entered invalid answer. Enter the answer again:\n");
        goto q4;
    }

    count++;

q5:
    printf("\n[5] Which is the hottest planet in our solar system?\n\n (1) Mars\n (2) Mercury\n (3) sun\n (4) Venus\n");
    printf("\n\tYour Answer (1,2,3 or 4): ");
    scanf("%d", &ans);

    if (ans == 4)
    {
        printf("\n\tCorrect!\n");
        right++;

        printf("\nPress any key to move to the next quiz\n");
        getch();
        system("CLS");
    }

    else if (ans == 1 || ans == 2 || ans == 3)
    {
        printf("\n\tWrong!\nRight answer: (2)\n");
        wrong++;

        printf("\nPress any key to move to the next quiz\n");
        getch();
        system("CLS");
    }

```

```

    }

    else
    {
        printf("\nYou entered invalid answer. Enter the answer
again:\n");
        goto q5;
    }

    count++;

    q6:
        printf("\n[6] In which stadium will the opening match of
World Cup football 2022 be held ?\n
\n (1) Khalifa International Stadium\n (2) Al-Janoob Stadium\n (3) Al-
Tumama Stadium\n (4) Al-Bayt Stadium\n");
        printf("\n\tYour Answer (1,2,3 or 4): ");
        scanf("%d", &ans);
        if (ans == 4)
        {
            printf("\n\tCorrect!\n");
            right++;

            printf("\nPress any key to move to the next quiz\n");
            getch();
            system("CLS");
        }
        else if (ans == 1 || ans == 2 || ans == 3)
        {
            printf("\n\tWrong!\nRight answer: (4)\n");
            wrong++;

            printf("\nPress any key to move to the next quiz\n");
            getch();
            system("CLS");
        }
        else
        {
            printf("\nYou entered invalid answer. Enter the answer
again:\n");
            goto q6;
        }

        count++;

    q7:
        printf("\n[7] Who invented C programming language?\n
\n (1) Charles Babbage\n (2) Dennis Ritchie\n (3) Steve Jobs\n (4)
Grahambel\n");
        printf("\n\tYour Answer (1,2,3 or 4): ");
        scanf("%d", &ans);

        if (ans == 2)
        {
            printf("\n\tCorrect!\n");
            right++;

            printf("\nPress any key to move to the next quiz\n");
            getch();
            system("CLS");
        }

```

```

else if (ans == 1 || ans == 4 || ans == 3)
{
    printf("\nWrong!\nRight answer: (1)\n");
    wrong++;

    printf("\nPress any key to move to the next quiz\n");
    getch();
    system("CLS");
}
else
{
    printf("\nYou entered invalid answer. Enter the
answer again:\n");
    goto q7;
}

count++;

q8:
    printf("\n[8] Won three World Cups as a player--\
\n\n (1) Maradona\n (2) Ronaldo\n (3) Pele\n (4) Johan Cruyff\n");
    printf("\n\tYour Answer (1,2,3 or 4): ");
    scanf("%d", &ans);
    if (ans == 3)
    {
        printf("\n\tCorrect!\n");
        right++;

        printf("\nPress any key to move to the next quiz\n");
        getch();
        system("CLS");
    }

    else if (ans == 1 || ans == 2 || ans == 4)
    {
        printf("\nWrong!\nRight answer: (1)\n");
        wrong++;

        printf("\nPress any key to move to the next quiz\n");
        getch();
        system("CLS");
    }
    else
    {
        printf("\nYou entered invalid answer. Enter the
answer again:\n");
        goto q8;
    }

    count++;

q9:
    printf("\n[9] Which country is the most champion in
World Cup football?\
\n\n (1) Argentina\n (2) Brazil\n (3) Uruguay\n (4) Italy");
    printf("\n\tYour Answer (1,2,3 or 4): ");
    scanf("%d", &ans);
    if (ans == 2)
    {

```



```

        printf("\n\tCorrect!\n");
        right++;

        printf("\nPress any key to move to the next quiz\n");
        getch();
        system("CLS");
    }
    else if (ans == 1 || ans == 3 || ans == 4)
    {
        printf("\nWrong!\nRight answer: (3)\n");
        wrong++;
        printf("\nPress any key to move to the next quiz\n");
        getch();
        system("CLS");
    }
    else
    {
        printf("\nYou entered invalid answer. Enter the
answer again:\n");
        goto q9;
    }

    count++;

    q10:
        printf("\n[10] Fill the proper preposition:\n
\n\tNo, thanks. I was ..... the cinema yesterday.\n
\n\n (1) under\n (2) into\n (3) at\n (4) to\n");
        printf("\n\tYour Answer (1,2,3 or 4): ");
        scanf("%d", &ans);
    if (ans == 3)
    {
        printf("\n\tCorrect!\n");
        right++;

        printf("\nPress any key to move to the next quiz\n");
        getch();
        system("CLS");
    }

    else if (ans == 1 || ans == 2 || ans == 4)
    {
        printf("\n\tWrong!\nRight answer: (3)\n");
        wrong++;
        printf("\nPress any key to move to the next quiz\n");
        getch();
        system("CLS");
    }
    else
    {
        printf("\nYou entered invalid answer. Enter the
answer again:\n");
        goto q10;
    }

    count++;

    printf("\n\t\t\t\t\t.....Result History.....\n");

    printf("\n\tNumber of questions attempted: %d\n\tCorrect answers: %d\n
\tWrong answers: %d",count, right, wrong);

```

```

        printf("\n\nEnter your name: ");
        getchar();
        fgets(s.name,29,stdin);

        s.result = right;

        fprintf(file, "%s %d\n", s.name, s.result); // Storing name
and score of user in file

        printf("\n-----");

        printf("\n\nReplay? So Please << y >> Or << n >> Press : ");
        scanf("%c", &key);

        } while (key == 'y');
        fclose(file);
        goto start;

    case 2:

        printf("\nPress any key to move to the next quiz\n");
        getch();
        system("CLS");

        file = fopen("Quiz score.txt", "r"); // Opening file to read
data

        printf("\n\t# Scoreboard #\n\n");

        while (fscanf(file, "%s %d", s.name, &s.result) != EOF)
            printf(" Name: %s, Score: %d\n", s.name, s.result);

        printf("*****");

        fclose(file);

        goto start;

    case 3:

        printf("\nPress any key to move to the next quiz\n");
        getch();
        system("CLS");

        printf("\n\t\t\t\t\t..... End .....");

        getch ();

    return 0;

        default:
            printf("You entered invalid key");
        }
}

```

Chapter 3 : Performance

3.1 Results and Discussions

1.You will get three options here where Quiz game, Scoreboard and Exit game, you can play the game according to your choice by combining them.

```

                                Welcome to the  QUIZ GAME
                                -----
                                The quiz has 10 very basic questions on the General knowledge.
                                You will get 01 points for answering each question correctly.

CHOOSE YOUR FAVOURITE AMONG THE THREE OPTIONS :

1. Start Quiz
2. Show Scoreboard
3. Quit
```

2. If you enter right answer then show output that's **Correct!** answer....

```

[2] Which river flows across the India-Bangladesh border ?

(1) Hooghly River
(2) Brahmaputra River
(3) Ichamati River
(4) Surma River

    Your Answer (1,2,3 or 4): 3

    Correct!

Press any key to move to the next quiz
|
```

- And enter wrong answer then show output **Wrong!** answer

```

[2] Which river flows across the India-Bangladesh border ?

(1) Hooghly River
(2) Brahmaputra River
(3) Ichamati River
(4) Surma River

    Your Answer (1,2,3 or 4): 1

    Wrong!
    Right answer: (3)

Press any key to move to the next quiz
```

3. When the player choose the wrong option for any question then again show the same question until the player chooses the right option.

```
[2] Which river flows across the India-Bangladesh border ?

(1) Hooghly River
(2) Brahmaputra River
(3) Ichamati River
(4) Surma River

    Your Answer (1,2,3 or 4): 5

You entered invalid answer. Enter the answer again:

[2] Which river flows across the India-Bangladesh border ?

(1) Hooghly River
(2) Brahmaputra River
(3) Ichamati River
(4) Surma River

    Your Answer (1,2,3 or 4): 2

    Wrong!
    Right answer: (3)

    Press any key to move to the next quiz
```

4. At the end of the exam you will be told your result details. And if you can go back to the game again.....

```
.....Result History.....

Number of questions attempted: 10
Correct answers: 8
Wrong answers: 2

Enter your name: Zehadul Islam
-----

Replay? So Please << y >> Or << n >> Press : y

[1] Dhaka is capital of Bangladesh. On which river it is situated?

(1) Padma
(2) Buriganga
(3) Jamuna
(4) Maghna

    Your Answer (1,2,3 or 4): |
```

- If you don't like it after getting the result, leave...

```
.....Result History.....

Number of questions attempted: 10
Correct answers: 1
Wrong answers: 9

Enter your name: Zehadul Islam
-----

Replay? So Please << y >> Or << n >> Press : n

1. Start Quiz
2. Show Scoreboard
3. Quit
|
```

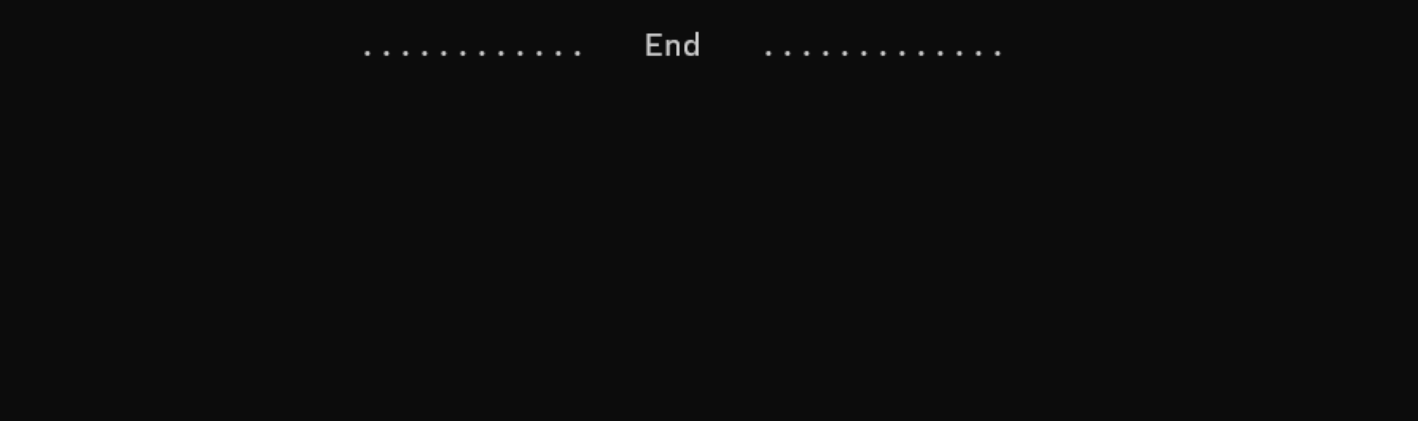
5. The more times you do this, the more your results will accumulate. And anytime you select 2, you will see all your old Result in this Scoreboard

```
# Scoreboard #

Name: zehad, Score: 4
Name: Midul, Score: 3
Name: zehad, Score: 1
Name: 1, Score: 1
Name: eye, Score: 1
Name: 1, Score: 1
Name: 23, Score: 1
Name: zehad, Score: 1
Name: 2, Score: 1
Name: 1, Score: 4
Name: zehad, Score: 8
Name: 2, Score: 3
Name: 1, Score: 1
Name: 3, Score: 3
Name: 3, Score: 3
Name: g, Score: 3
*****

1. Start Quiz
2. Show Scoreboard
3. Quit
```


6. And finally exit the game anytime you want. And end the game....



..... End

Chapter 4

Conclusion

Learning Outcome

From this assignment, I have learn to implement a few C concepts in the future projects such as if else condition , goto statement , character and string.

4.1 Future Scope

- I can add unlimited questions to this quiz game.
- I will develop the program in the future so that it shows different questions at different times..

References

[1] <https://www.studytonight.com/c-projects/quiz-game-project-using-c-language>

[2] <https://www.codewithc.com/quiz-game-mini-project-in-c/>
