



PROJECT REPORT

On

“ Quize Game ”

DEPARTMENT OF FIRST YEAR ENGINEERING

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CONTENTS

1. Introduction (Project Details)	01
2. Major Library and Functions	02
3. Source Code (Program).....	06
4. Result (Output).....	08
5. Conclusion	09
References	

Introduction (Project Details):

This report is an introduction to the Quiz Game in 'C' programming. Anybody, who doesn't know even the basic of Quiz Game in 'C' will be certainly able to understand and gain the great knowledge from this report. The core theme of the report focus on the development of quiz game in C language.

Quiz Games are one of the most interactive and mind blogging games of all time. Whether it be a child or teen or an adult, these Quiz Games fascinate people of all age groups. In this article, we will make a simple Quiz Game using C programming language.

Functionalities of a Quiz Game

The Quiz Game program provides the following functionalities:

- Store Questions
- Check Answers if they are correct/wrong
- Get the Final Score

Major Library and Functions:

In Quiz Game program standard C libraries and functions are used :

1. Header Files

- Include all the necessary header files that you are going to use in your program: Here we are using <stdio.h> and <string.h>
- <stdio.h>: This standard input-output library provides functions like printf() and scanf() for formatted input and output, allowing interaction with the user through the console.
- <string.h> is the standard library for the C programming language which contains macro definitions, constants and declarations of functions and types used not only for string handling but also various memory handling functions.

2. askQuestion(char *question, char *answer);

- This declares a function named askQuestion that takes two parameters: a pointer to a character array representing the question and a pointer to a character array representing the answer. The function returns an integer.

3. If.....else condition

In this code:

- If the result of strcmp is 0 (meaning the user's answer matches the expected answer), the code inside the if block will execute.
- If the result of strcmp is not 0 (meaning the user's answer does not match the expected answer), the code inside the else block will execute.

if (strcmp(userAnswer, answer)==0)

- This line of code compares the user's answer with the expected answer using the strcmp function. If the two strings are exactly the same (i.e., if the result of strcmp is 0), then the condition evaluates to true. This is often used to check if the user's input matches the expected answer.

Source Code (Program):

```
#include <stdio.h>
#include <string.h>

int askQuestion(char *question, char *answer)
{
    char userAnswer[100];

    printf("%s\n", question);

    printf("Your answer: ");

    scanf("%s", userAnswer);

    if (strcmp(userAnswer, answer)==0)
    {
        printf("Correct!\n\n");

        return 1;
    } else {

        printf("Incorrect answer.\n The correct answer is: %s\n", answer);

        return 0;
    }

}

int main()
{
    int score = 0,i;

    printf("\nWelcome to the Quiz Game!\n");

    printf("\nAnswer the following questions:\n");
```

```
if (askQuestion("\nWhat is the capital of Maharashtra?", "Mumbai")) score++;

if (askQuestion("What is the largest planet in our solar system?", "Jupiter")) score++;

if (askQuestion("What is the capital of France?", "Paris")) score++;


if (askQuestion("What is the longest river in the world?", "Amazon")) score++;

if (askQuestion("What is the smallest prime number?", "2")) score++;

if (askQuestion("What is the capital of India?", "Delhi")) score++;

if (askQuestion("What is the chemical symbol for water?", "H2O")) score++;

if (askQuestion("What is the chemical symbol for gold?", "Au")) score++;

if (askQuestion("What is the chemical symbol for iron?", "Fe")) score++;

if (askQuestion("What is the largest ocean on Earth?", "Pacific Ocean")) score++;


printf("\nYour final score is: %d out of 10\n", score);

return 0;

}
```

Result & Discussion (Output):

Welcome to the Quiz Game!

Answer the following questions:

What is the capital of Maharashtra?

Your answer: Mumbai

Correct!

What is the largest planet in our solar system?

Your answer: Jupiter

Correct!

What is the capital of France?

Your answer: Paris

Correct!

What is the longest river in the world?

Your answer: Amazon

Correct!

What is the smallest prime number?

Your answer: 2

Correct!

What is the capital of India?

Your answer: Delhi

Correct!

What is the chemical symbol for water?

Your answer: H₂O

Correct!

What is the chemical symbol for water?

Your answer: H2O

Correct!

What is the chemical symbol for gold?

Your answer: Au

Correct!

What is the chemical symbol for iron?

Your answer: Fe

Correct!

What is the largest ocean on Earth?

Your answer: Atlantic Ocean

Incorrect answer.

The correct answer is: Pacific Ocean

Your final score is: 9 out of 10

Process exited after 41.09 seconds with return value 0

Press any key to continue . . . ■

Conclusion:

In this quiz game code, we've implemented a simple yet engaging quiz experience. Players are presented with a series of questions, prompted to input their answers, and awarded points for correct responses. The game concludes by displaying the player's final score. While this code provides a basic framework for a quiz game, there are countless opportunities for enhancement.

Additional features such as time limits, lifelines, or a wider variety of question types could make the game more dynamic. Moreover, integrating a graphical user interface or multiplayer functionality could enhance the user experience and extend the game's appeal. Whether you're a beginner exploring programming concepts or an experienced developer seeking to expand a game project, this code serves as a solid foundation for building and customizing your own quiz game. With creativity and innovation, the possibilities for enhancing this game are virtually limitless.

Reference:

1. www.wikipedia.org/
2. www.Google.com
3. www.beginnersbook.com
4. <https://youtube.com>

