MINI QUIZ GAME PROJECT

Abstract:

The Mini Quiz Game is a simple console-based application developed using the C programming language. This project is designed to test the user's general knowledge by asking multiple-choice questions and calculating the final score based on correct answers. It helps beginners understand basic programming concepts such as conditional statements, loops, functions, and input/output operations. The game is user-friendly and provides instant results at the end of the quiz.

Introduction:

Quiz games are interactive applications that improve learning and engagement. The Mini Quiz Game project allows users to answer a set of predefined questions with multiple choices. Each correct answer increases the user's score.This project is mainly developed for students to gain practical knowledge of C programming concepts like if-else, switch, loops, and functions. It can be further enhanced by adding more questions, levels, or a timer.

Software Requirements:

- System: Windows / Linu
- Programming Language: C
- Compiler: GCC / Turbo C / Dev-C++
- Editor: Code::Blocks / Dev-C++ / Turbo C

Hardware Requirements:

- Processor: Any basic processor (Intel / AMD)
- RAM: Minimum 2 GB
- Hard Disk: 100 MB free space
- Input Devices: Keyboard
- Output Devices: Monitor

c programming code:

```
#include <stdio.h>

int main() {
```

```
 int score = 0;
  char answer;
  int i;
char questions[10][100] = {
      "Capital of India?",
      "2 + 2 = ?",
      "Founder of C language?",
      "Which symbol ends a statement in C?",
      "Header file for printf?",
      "5 * 5 = ?",
      "Which is a loop in C?",
      "10 / 2 = ?",
      "Output function in C?",
      "C is a programming language?"
  };
char options[10][4][50] = {
      {"A) Delhi", "B) Mumbai", "C) Chennai", "D) Kolkata"},
      {"A) 3", "B) 4", "C) 5", "D) 6"},
      {"A) Dennis Ritchie", "B) James Gosling", "C) Guido van Rossum", "D) Elon Musk"},
      {"A) :", "B) ;", "C) ,", "D) ."},
      {"A) math.h", "B) stdlib.h", "C) stdio.h", "D) string.h"},
      {"A) 10", "B) 15", "C) 20", "D) 25"},
      {"A) if", "B) for", "C) switch", "D) break"},
      {"A) 2", "B) 3", "C) 4", "D) 5"},
      {"A) scanf", "B) input", "C) printf", "D) display"},
      {"A) Yes", "B) No", "C) Maybe", "D) None"}
```

```
    };
char correctAnswers[10] = {'A','B','A','B','C','D','B','A','C','A'};
printf("===== MINI QUIZ GAME =====\n");
  for(i = 0; i < 10; i++) {
        printf("\nQ%d. %s\n", i+1, questions[i]);
        printf("%s\n", options[i][0]);
        printf("%s\n", options[i][1]);
        printf("%s\n", options[i][2]);
        printf("%s\n", options[i][3]);
       printf("Enter your answer: ");
        scanf(" %c", &answer);
 if(answer == correctAnswers[i] ||
      answer == correctAnswers[i] + 32) {
           score++;
        }
    }
  printf("\n===== RESULT =====\n");
  printf("Your Score: %d / 10\n", score);
  if(score >= 8)
        printf("Excellent Performance!\n");
    else if(score >= 5)
        printf("Good Job!\n");
    else
        printf("Needs Improvement.\n");
return 0;
}
```

outputs:

step 1-

```
===== MINI QUIZ GAME =====

Q1. Capital of India?
A) Delhi
B) Mumbai
C) Chennai
D) Kolkata
Enter your answer:
```

Step 2-

```
Q2. 2 + 2 = ?
A) 3
B) 4
C) 5
D) 6
Enter your answer:
```

Step 3-

```
Q3. Founder of C language?
A) Dennis Ritchie
B) James Gosling
C) Guido van Rossum
D) Elon Musk
Enter your answer:
```

Step 4-

```
Q4. Which symbol ends a statement in C?
A) :
B) ;
C) ,
D) .
Enter your answer:
```

Step 5-

```
Q5. Header file for printf?
A) math.h
B) stdlib.h
C) stdio.h
D) string.h
Enter your answer:
```

Step 6-

```
Q6. 5 * 5 = ?
A) 10
B) 15
C) 20
D) 25
Enter your answer:
```

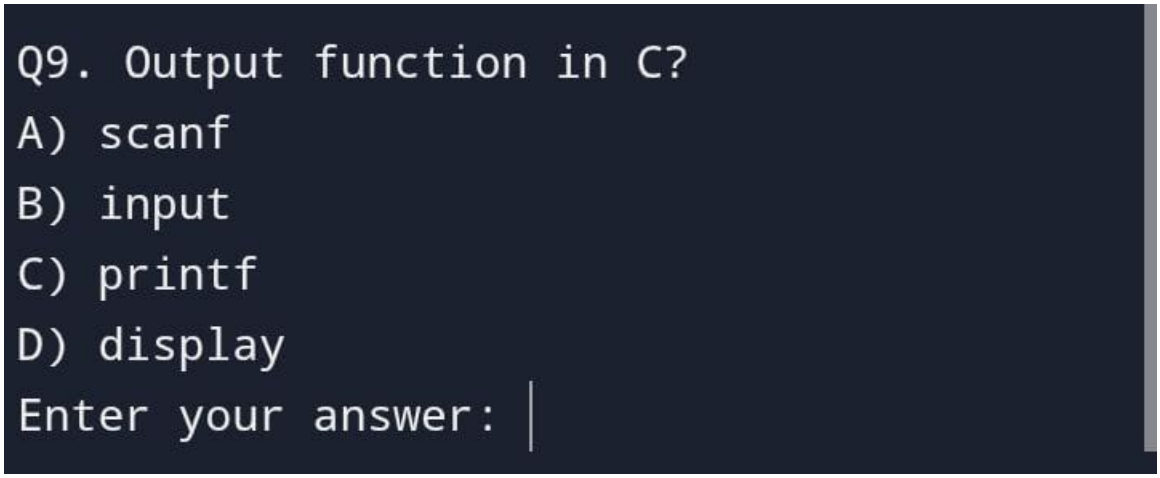
Step 7-

```
Q7. Which is a loop in C?
A) if
B) for
C) switch
D) break
Enter your answer:
```

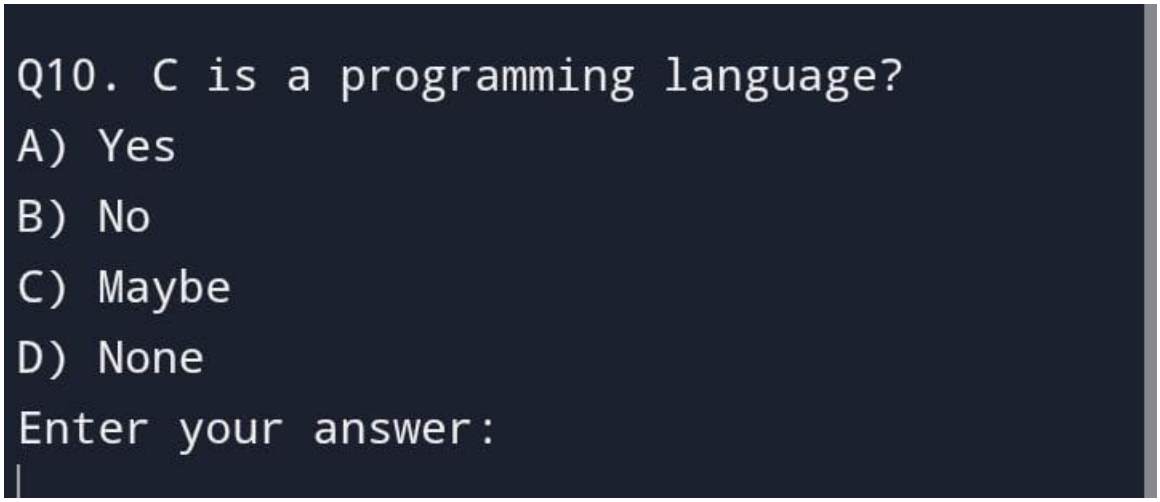
Step 8-

```
Q8. 10 / 2 = ?
A) 2
B) 3
C) 4
D) 5
Enter your answer:
```

Step 9-



Step 10-



Result:

The Mini Quiz Game successfully displays questions, accepts user input, evaluates answers, and calculates the final score. The user receives immediate feedback in the form of a score at the end of the quiz. The program runs without errors and meets the expected objectives.

Conclusion:

The Mini Quiz Game project demonstrates the practical use of basic C programming concepts. It is simple, interactive, and easy to understand for beginners. This project helps students improve logical thinking and coding skills. The application can be further enhanced by adding more questions, difficulty levels, a timer, or file handling to store scores.