###### **FUNDAMENTAL PROGRAMMING PROJECT**

**TOPIC: QUIZ GAME**

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**Here's a detailed explanation of each step in the Quiz Game program:**

Step 1: Include necessary header files and namespace

```

#include <iostream>

using namespace std;

```

- The `#include <iostream>` directive includes the iostream standard file, which allows for input/output operations.

- The `using namespace std;` directive brings the standard library namespace into scope, allowing for the use of standard library functions and objects without qualifying them with the `std::` prefix.

Step 2: Define the main function

```

int main() {

```

- The `int main()` function is the entry point of the program, where execution begins.

Step 3: Initialize score variable

```

int score = 0;

```

- An integer variable `score` is declared and initialized to 0, which will be used to keep track of the player's score.

Step 4: Display welcome message

```

cout << "Welcome to the Quiz Game!" << endl;

```

- A welcome message is displayed to the player using the `cout` object.

Step 5: Ask Question 1 and handle user response

```

cout << "What is the capital of France?" << endl;

cout << "A) Paris" << endl;

cout << "B) London" << endl;

cout << "C) Berlin" << endl;

cout << "D) Rome" << endl;

char answer1;

cin >> answer1;

if (answer1 == 'A' || answer1 == 'a') {

cout << "Correct answer!" << endl;

score++;

} else {

cout << "Incorrect answer. The correct answer is Paris." << endl;

}

```

- The first question is displayed, along with four possible answers (A, B, C, D).

- The player's response is read using the `cin` object and stored in the `answer1` variable.

- An if-else statement checks whether the player's response is correct (A or a). If correct, the score is incremented, and a success message is displayed. Otherwise, an error message with the correct answer is displayed.

Step 6: Repeat steps 5 for Questions 2 and 3

- The same process is repeated for Questions 2 and 3, with different questions, possible answers, and correct answers.

Step 7: Display final score

```

cout << "Game over! Your final score is " << score << " out of 3." << endl;

```

- After all questions have been asked, the final score is displayed to the player.

Step 8: Return from main function

```

return 0;

```

- The `main` function returns an integer value indicating successful execution (0).

**Question**:

* **programming fundamentals labs project about quiz game code given as follows**:

#include <iostream>

using namespace std;

int main() {

int score = 0;

cout << "Welcome to the Quiz Game!" << endl;

cout << "Rules and Regulations:" << endl;

cout << "1. The game consists of 10 questions." << endl;

cout << "2. Each question has four options." << endl;

cout << "3. You can choose only one option for each question." << endl;

cout << "4. For each correct answer, you will get 1 point." << endl;

cout << "5. For each incorrect answer, you will get 0 points." << endl;

cout << "6. The game will end after all 10 questions have been answered." << endl;

cout << "7. Your final score will be displayed at the end of the game." << endl;

Cout<<"8.their will be no negative marking."<<endl;

cout << "\nLet's start the game!" << endl;

cout << "Question 1: What is the capital of France?" << endl;

cout << "A) Berlin" << endl;

cout << "B) Paris" << endl;

cout << "C) London" << endl;

cout << "D) Rome" << endl;

char ans1;

cin >> ans1;

if (ans1 == 'B' || ans1 == 'b') {

score++;

cout << "Correct answer!" << endl;

} else {

cout << "Incorrect answer. The correct answer is Paris." << endl;

}

cout << "Question 2: Who is the CEO of SpaceX?" << endl;

cout << "A) Elon Musk" << endl;

cout << "B) Jeff Bezos" << endl;

cout << "C) Bill Gates" << endl;

cout << "D) Mark Zuckerberg" << endl;

char ans2;

cin >> ans2;

if (ans2 == 'A' || ans2 == 'a') {

score++;

cout << "Correct answer!" << endl;

} else {

cout << "Incorrect answer. The correct answer is Elon Musk." << endl;

}

cout << "Question 3: What is the largest planet in our solar system?" << endl;

cout << "A) Earth" << endl;

cout << "B) Saturn" << endl;

cout << "C) Jupiter" << endl;

cout << "D) Uranus" << endl;

char ans3;

cin >> ans3;

if (ans3 == 'C' || ans3 == 'c') {

score++;

cout << "Correct answer!" << endl;

} else {

cout << "Incorrect answer. The correct answer is Jupiter." << endl;

}

cout << "Question 4: Who is the author of the book 'To Kill a Mockingbird'?" << endl;

cout << "A) F. Scott Fitzgerald" << endl;

cout << "B) Harper Lee" << endl;

cout << "C) Jane Austen" << endl;

cout << "D) J.K. Rowling" << endl;

char ans4;

cin >> ans4;

if (ans4 == 'B' || ans4 == 'b') {

score++;

cout << "Correct answer!" << endl;

} else {

cout << "Incorrect answer. The correct answer is Harper Lee." << endl;

}

cout << "Question 5: What is the chemical symbol for gold?" << endl;

cout << "A) Ag" << endl;

cout << "B) Au" << endl;

cout << "C) Hg" << endl;

cout << "D) Pb" << endl;

char ans5;

cin >> ans5;

if (ans5 == 'B' || ans5 == 'b') {

score++;

cout << "Correct answer!" << endl;

} else {

cout << "Incorrect answer. The correct answer is Au." << endl;

}

cout << "Question 6: Who is the founder of Microsoft?" << endl;

cout << "A) Bill Gates" << endl;

cout << "B) Steve Jobs" << endl;

cout << "C) Mark Zuckerberg" << endl;

cout << "D) Larry Page" << endl;

char ans6;

cin >> ans6;

if (ans6 == 'A' || ans6 == 'a') {

score++;

cout <<" correct answer"<<endl;

}else{

cout <<"incorrect answer.the correct answer is Bill gates"<<endl;

}

cout << "Question 7: What is the largest living structure on Earth?" << endl;

cout << "A) The Great Barrier Reef" << endl;

cout << "B) The Amazon Rainforest" << endl;

cout << "C) The Grand Canyon" << endl;

cout << "D) The Great Wall of China" << endl;

char ans7;

cin >> ans7;

if (ans7 == 'A' || ans7 == 'a') {

score++;

cout << "Correct answer!" << endl;

} else {

cout << "Incorrect answer. The correct answer is The Great Barrier Reef." << endl;

}

cout << "Question 8: Who is the author of the book '1984'?" << endl;

cout << "A) George Orwell" << endl;

cout << "B) Aldous Huxley" << endl;

cout << "C) Ray Bradbury" << endl;

cout << "D) Kurt Vonnegut" << endl;

char ans8;

cin >> ans8;

if (ans8 == 'A' || ans8 == 'a') {

score++;

cout << "Correct answer!" << endl;

} else {

cout << "Incorrect answer. The correct answer is George Orwell." << endl;

}

cout << "Question 9: What is the chemical symbol for silver?" << endl;

cout << "A) Ag" << endl;

cout << "B) Au" << endl;

cout << "C) Hg" << endl;

cout << "D) Pb" << endl;

char ans9;

cin >> ans9;

if (ans9 == 'A' || ans9 == 'a') {

score++;

cout << "Correct answer!" << endl;

} else {

cout << "Incorrect answer. The correct answer is Ag." << endl;

}

cout << "Question 10: Who is the founder of Facebook?" << endl;

cout << "A) Mark Zuckerberg" << endl;

cout << "B) Steve Jobs" << endl;

cout << "C) Bill Gates" << endl;

cout << "D) Larry Page" << endl;

char ans10;

cin >> ans10;

if (ans10 == 'A' || ans10 == 'a') {

score++;

cout << "Correct answer!" << endl;

} else {

cout << "Incorrect answer. The correct answer is Mark Zuckerberg." << endl;

}

cout << "\nGame over! Your final score is " << score << " out of 10." << endl;

if (score >= 8) {

cout << "Congratulations! You are a quiz master!" << endl;

} else if (score >= 5) {

cout << "Good job! You have a good knowledge of general knowledge." << endl;

} else {

cout << "Better luck next time! You can improve your knowledge of general knowledge." << endl;

}

return 0;

}

**THE END**