

Program of quiz

```
#include <stdio.h>

void QuizStart();

int main()
{
    int choice;
    char again;

    do
    {
        printf("\n===== QUIZ MENU =====\n");
        printf("1. Start Quiz\n");
        printf("2. Exit\n");
        printf("Enter your choice: ");
        scanf("%d", &choice);

        switch(choice)
        {
            case 1:
                do
                {
                    QuizStart();
                }
                while(again == 'y' || again == 'Y');
        }
    }
    while(choice != 2);
}
```

```
printf("\nDo you want to play again? (Y/N): ");
scanf(" %c", &again);

} while(again == 'Y' || again == 'y');

break;

case 2:
printf("Exiting Program...\n");
break;

default:
printf("Invalid choice! Try again.\n");

}

} while(choice != 2);

return 0;
}

void QuizStart()
{
    int score = 0;
    float percentage;
    char answer;
    int i, j;

    char questions[5][100] = {
        "Q1: Who is the founder of C language?",  

        "Q2: Which symbol ends a statement in C?",  

        "Q3: What is the difference between a variable and a constant?",  

        "Q4: What is the output of the following C code?",  

        "Q5: What is the purpose of the #include directive?"  

    };
}
```

"Q3: Which of the following is a loop in C?",
"Q4: Which symbol is used for comments in C?",
"Q5: Which function is used to print in C?"
};

char options[5][4][50] = {

{"A) James Gosling", "B) Dennis Ritchie", "C) Bjarne Stroustrup", "D) Guido van Rossum"},

{"A) .", "B) ;", "C) :", "D) ,"},
{"A) for", "B) repeat", "C) loop", "D) iterate"},
{"A) //", "B) ##", "C) <!--", "D) **"},
{"A) cout", "B) printf", "C) print", "D) echo"}

};

char correctAns[5] = {'B', 'B', 'A', 'A', 'B'};

printf("\n===== QUIZ STARTED =====\n");

for(i = 0; i < 5; i++)
{
 printf("\n%s\n", questions[i]);

for(j = 0; j < 4; j++)
 {
 printf("%s\n", options[i][j]);

}

 printf("Enter your answer: ");
 scanf(" %c", &answer);

```
if(answer == correctAns[i] || answer == correctAns[i] + 32)
{
    score++;
    printf("Correct Answer!\n");
}
else
{
    printf("Wrong Answer!\n");
}

printf("\n===== RESULT =====\n");
printf("Final Score: %d/5\n", score);

percentage = (score / 5.0) * 100;

printf("Percentage: %.2f%%\n", percentage);

if(percentage >= 50)
{
    printf("Status: PASS\n");
}
else
{
    printf("Status: FAIL\n");
}

/* ===== FILE SAVING PART (STEP 8) ===== */
```

```
FILE *fp = fopen("Quiz.txt", "a");

if(fp == NULL)
{
    printf("Error: File could not be opened!\n");
    return;
}

fprintf(fp, "Score: %d/5\n", score);
fprintf(fp, "Percentage: %.2f%%\n", percentage);

if(percentage >= 50)
    fprintf(fp, "Status: PASS\n");
else
    fprintf(fp, "Status: FAIL\n");

fprintf(fp, "-----\n");

fclose(fp);

printf("Result saved successfully!\n");
}
```