

Quiz Game

Description:

The following program is a simulation of a quiz game using C language. In this program a user is given a set of questions where he/she has to guess the answer and depending on the answers given the user gets one point if the guess is correct and zero points if the guess is incorrect. Finally the total score is displayed.

Code:

```
#include <stdio.h>
#include <ctype.h>
int main(){
    char questions[][100]={"1.What year did C language debut?: ",
        "2.Who is the founder of C language?: ",
        "3.What is the capital of India?: ",
        "4.What is the predecessor of C?: ",
        "5.Which is the longest river in the world?: ",
        "6.Who invented the light bulb?: ",
        "7.Who is known as the Iron man of India?: ",
        "8. What is the name of the mars rover which recently landed on the red planet?:",
        "9.Which among the following rulers was defeated by Seleucus?:",
        "10.In the third battle of Panipat, who defeated the Marathas?:", };

    char options[][100]={"A.1969", "B.1972", "C.1970", "D.1980",
        "A.Dennis Ritchie", "B.Nikola Tesla", "C.John Brown", "D.Charles Babbage",
        "A.New Delhi", "B.Chandigarh", "C.Bengaluru", "D.Chennai",
        "A.Objective C", "B. B", "C. C++", "D. C#",
        "A. River Nile", "B. Amazon River", "C. Mississippi River", "D. Ganga River",
        "A. Benjamin Franklin", "B.Einstein", "C.Thomas Alvson Edison ", "D. CV Raman",
        "A.Govind Ballabh Pant", "B.Jawaharlal Nehru", "C.Subhash Chandra Bose", "D.Dr.Sardar Patel",
        "A.Discovery", "B. Perseverance", "C. Grit", "D. Ingenuity",
        "A.Chandra Gupta Maurya ", "B. Chanakya", "C. Vikramaditya", "D. None of the above",
        "A. British Army", "B. Mughals", "C. Afghans", "D. Portuguese",
    };

    char answers[10]={'B', 'A', 'A', 'B', 'A', 'C', 'D', 'B', 'A', 'C'};
    int numberofquestions= sizeof(questions)/sizeof(questions[0]);
    char guess;
    int score = 0;
```

```

int i,j;
printf("QUIZ GAME\n");
for(i=0;i<numberofquestions;i++){
    printf("*****\n");
    printf("%s\n", questions[i]);
    printf("*****\n");
    for(j=(i*4); j< (i*4)+4; j++){
        printf("%s\n", options[j]);
    }
    printf("Guess:");
    scanf("%c", &guess);
    scanf("%c"); // to remove \n from input buffer

    guess= toupper(guess);// to accept both upper case and lower case letters

    if(guess== answers[i]){
        printf("CORRECT!!\n");
        score++;
    }
    else
        printf("INCORRECT!!\n");
}

printf("*****\n");
printf("FINAL SCORE: %d/%d", score, numberofquestions);
printf("*****\n");
printf("Thank You for playing!!!\n");
printf("-----xxxxxx-----");

return 0;
}

```

Output screenshot:

QUIZ GAME

1.What year did C language debut?:

A.1969

B.1972

C.1970

D.1980

Guess:B

CORRECT!!

2.Who is the founder of C language?:

A.Dennis Ritchie

B.Nikola Tesla

C.John Brown

D.Charles Babbage

Guess:A

CORRECT!!

3.What is the capital of India?:

A.New Delhi

B.Chandigarh

C.Bengaluru

D.Chennai

Guess:C

INCORRECT!!

```
4.What is the predecessor of C?:
*****
A.Objective C
B. B
C. C++
D. C#
Guess:B
CORRECT!!
****
5.Which is the longest river in the world?:
*****
A. River Nile
B. Amazon River
C. Mississippi River
D. Ganga River
Guess:A
CORRECT!!
****
6.Who invented the light bulb?:
*****
A. Benjamin Franklin
B.Einstein
C.Thomas Alvson Edison
D. CV Raman
Guess:C
CORRECT!!
****
7.Who is known as the Iron man of India?:
*****
A.Govind Ballabh Pant
B.Jawaharlal Nehru
C.Subhash Chandra Bose
D.Dr.Sardar Patel
Guess:A
INCORRECT!!
```

```
****
8. What is the name of the mars rover which recently landed on the red planet?:
*****
A.Discovery
B. Perseverance
C. Grit
D. Ingenuity
Guess:B
CORRECT!!
****
9.Which among the following rulers was defeated by Seleucus?:
*****
A.Chandra Gupta Maurya
B. Chanakya
C. Vikramaditya
D. None of the above
Guess:A
CORRECT!!
****
10.In the third battle of Panipat, who defeated the Marathas?:
*****
A. British Army
B. Mughals
C. Afghans
D. Portuguese
Guess:C
CORRECT!!
****
FINAL SCORE: 8/10****
Thank You for playing!!!
```