



Govt College Women University

FSD

PROJECT DOCUMENTATION

Project Title: Mini Quiz Game

Course Title: Programming Fundamental
Course Code:CSC-311
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1.Introduction:

This project (**Quiz Game**) is developed in C++, which is designed for beginner-level programmers. The main purpose of this game is to test general knowledge while using the basic C++ programming concepts such as variables, functions, conditional statements, and user input/output. The game contains 3 levels in which difficulty increase gradually: Easy, Medium, and Hard. Each level consists of **10 questions**. Based on the total score, the game displays a result message indicating whether the player has **won, performed very well, or lost**.

This project not only provides entertainment and fun but also helps beginners understand how to structure a simple C++ program, use functions for modular programming, and implement a basic scoring system.

2.Goals:

1. To develop a C++ project that allows learners to practice **basic programming concepts**.
2. To test and improve general knowledge of the player through a fun and interactive quiz game.
3. To implement **modular programming** by using functions for different levels of the quiz (Easy, Medium, Hard).
4. To practice **conditional statements** and **decision-making** logic in C++.
5. To handle user input and output effectively, allowing interaction between the program and the player.
6. To create a simple scoring system that calculates the player's performance and displays appropriate result messages.
7. To encourage logical thinking and problem-solving while designing and structuring the quiz questions and program flow.
8. Prepare beginners for **more advanced C++ programming projects** in the future.
9. Improve understanding of **program structure and coding style** in C++

3.Tools\Software used:

- **C++ programming language:** A high-level, general-purpose programming language used for developing applications, games, and system software.
- **Dev C++:** An integrated development environment (IDE) for writing, compiling, and running C++ programs.
- **OS Windows:** A popular operating system by Microsoft used to run applications and development tools like Dev C++.

4.Code:

Project code:

```
#include<iostream>
using namespace std;
void easy (void)
{
    string b,c,d,e,f,g,h,i,j,k;
    int total=0;
    //Enter all questions
    cout<<"\nWhat is the name of our galaxy?\nAns:";
    cin>>b;
    cout<<"\nWhich bird can fly the highest in the sky?\nAns:";
    cin>>c;
    cout<<"\nWhat do we drink that comes from cows?\nAns:";
    cin>>d;
    cout<<"\nWhat do we call the device used to take photos?\nAns:";
    cin>>e;
    cout<<"\nWhich is the biggest animal on Earth?\nAns:";
    cin>>f;
    cout<<"\nWhat do bees make?\nAns:";
    cin>>g;
    cout<<"\nHow many colors are in a rainbow?\nAns:";
    cin>>h;
    cout<<"\nWhich animal is known as the King of the Jungle?\nAns:";
    cin>>i;
    cout<<"\nWhat do we call the baby of a cat?\nAns:";
    cin>>j;
    cout<<"\nWhich planet is known as the Red Planet?\nAns:";
    cin>>k;
    //Check the answers of questions
    if(b=="Cosmos"||b=="cosmos")
```

```

{
    total++;
}

if(c=="Eagle"||c=="eagle")
{
    total++;
}

if(d=="Milk"||d=="milk")
{
    total++;
}

if(e=="Camera"||e=="camera")
{
    total++;
}

if(f=="Titan"||f=="titan")
{
    total++;
}

if(g=="Honey"||g=="honey")
{
    total++;
}

if(h=="7")
{
    total++;
}

if(i=="Lion"||i=="lion")
{
    total++;
}

```

```

}

if(j=="Kitten"||j=="kitten")
{
    total++;
}

if(k=="Mars"||k=="mars")
{
    total++;
}

}

//Calculate result

cout<<"\nYour correct answers are:"<<total;

cout<<"\n\n.....\n";

if(total<=4)
{
    cout<<"\n.....YOU LOSS THE GAME.....";

    cout<<"\n\n.....";
}

else if(total<=8){

    cout<<"\n.....VERY GOOD!KEEP IT UP.....";

    cout<<"\n\n.....";
}

else
{
    cout<<"\n~~~~~YOU WON THE GAME~~~~~";

    cout<<"\n\n.....";
}

}

//.....medium level.....


void medium (void)
{

```

```

string l,m,n,o,p,q,r,s,t,u;
int to=0;
//Enter all questions
cout<<"\nWhat is the largest desert in the world?\nAns:";
cin>>l;
cout<<"\nWhich planet has the most moons?\nAns:";
cin>>m;
cout<<"\nWhich animal is known for laughing sounds?\nAns:";
cin>>n;
cout<<"\nWhat gas do plants produce during photosynthesis?\nAns:";
cin>>o;
cout<<"\nWhich sea creature has three hearts?\nAns:";
cin>>p;
cout<<"\nWhat is the fastest land animal?\nAns:";
cin>>q;
cout<<"\nWhich planet is called the Morning Star?\nAns:";
cin>>r;
cout<<"\nWho wrote Romeo and Juliet?\nAns:";
cin>>s;
cout<<"\nWhich animal can sleep standing up?\nAns:";
cin>>t;
cout<<"\nHow many bones are there in the adult human body?\nAns:";
cin>>u;
//Check the answers of questions
if(l=="Sahara"||l=="sahara")
{
    to++;
}
if(m=="Saturn"||m=="saturn ")
{

```

```

        to++;
    }

    if(n=="Hyena"||n=="hyena")
    {
        to++;
    }

    if(o=="Oxygen"||o=="oxygen")
    {
        to++;
    }

    if(p=="Octopus"||p=="octopus")
    {
        to++;
    }

    if(q=="Cheetah"||q=="cheetah")
    {
        to++;
    }

    if(r=="Venus"||r=="venus")
    {
        to++;
    }

    if(s=="Shakespeare"||s=="shakespeare")
    {
        to++;
    }

    if(t=="Horse"||t=="horse")
    {
        to++;
    }
}

```

```

if(u=="206")
{
    to++;
}

//Calculate result
cout<<"\nYour correct answers are:<<to;
cout<<"\n\n.....\n";
if(to<=4)
{
    cout<<"\n.....YOU LOSS THE GAME.....";
    cout<<"\n\n.....";
}
else if(to<=8){
    cout<<"\n.....VERY GOOD!KEEP IT UP.....";
    cout<<"\n\n.....";
}
else
{
    cout<<"\n~~~~~YOU WON THE GAME~~~~~";
    cout<<"\n\n.....";
}
}

//.....hard level.....
void hard (void)
{
    string v,w,x,y,z,ab,ac,ad,ae,af;
    int tot=0;
    //Enter all questions
    cout<<"\nWhat is the rarest blood type in humans?\nAns:";
    cin>>v;
}

```

```

cout<<"\nWhich element is named after a planet?\nAns:";

cin>>w;

cout<<"\nWhich is the only metal that is liquid at room temperature?\nAns:";

cin>>x;

cout<<"\nWhich organ can regenerate itself completely?\nAns:";

cin>>y;

cout<<"\nWho discovered penicillin?\nAns:";

cin>>z;

cout<<"\nWhich bird lays the largest eggs?\nAns:";

cin>>ab;

cout<<"\nWho is known as the "Father of Computers"? \nAns:";

cin>>ac;

cout<<"\nWhich memory is volatile?\nAns:";

cin>>ad;

cout<<"\nWhat is the speed of light in vacuum (approx)?\nAns:";

cin>>ae;

cout<<"\nWhich gas makes up most of the Earth's atmosphere?\nAns:";

cin>>af;

//Check the answers of questions

if(v=="AB-'||v=="ab-")

{

    tot++;

}

if(w=="Mercury'||w=="mercury")

{

    tot++;

}

if(x=="Mercury'||x=="mercury")

{

    tot++;

}

```

```

}

if(y=="Liver"||y=="liver")
{
    tot++;
}

if(z=="Fleming"||z=="fleming")
{
    tot++;
}

if(ab=="Ostrich"||ab=="ostrich")
{
    tot++;
}

if(ac=="Babbage"||ac=="babbage")
{
    tot++;
}

if(ad=="RAM"||ad=="ram")
{
    tot++;
}

if(ae=="299792458")
{
    tot++;
}

if(af=="Nitrogen"||af=="nitrogen")
{
    tot++;
}

//Calculate result

```

```

cout<<"\nYour correct answers are:"<<tot;
cout<<"\n\n.....\n";
if(tot<=4)
{
    cout<<"\n.....YOU LOSS THE GAME....";
    cout<<"\n\n.....";
}
else if(tot<=8){
    cout<<"\n.....VERY GOOD!KEEP IT UP....";
    cout<<"\n\n.....";
}
else
{
    cout<<"\n~~~~~YOU WON THE GAME~~~~~";
    cout<<"\n\n.....";
}
int main()
{
    int a;
    cout<<"1 for easy level.";
    cout<<"\n2 for medium level.";
    cout<<"\n3 for hard level.";
    cout<<"\n.....(_^_).....";
    cout<<"\nEnter number you want to play:";
    cin>>a;
//.....easy level.....
    switch(a)
    {
        case 1:

```

```

    {
        cout<<"Your easy level start.";
        cout<<"\n\n.....Best of Luck.....\n";
        easy();
    }

    break;

    case 2:
    {
        cout<<"Your medium level start.";
        cout<<"\n\n.....Best of Luck.....\n";
        medium();
    }

    break;

    case 3:
    {
        cout<<"Your hard level start.";
        cout<<"\n\n.....Best of Luck.....\n";
        hard();
    }

    break;

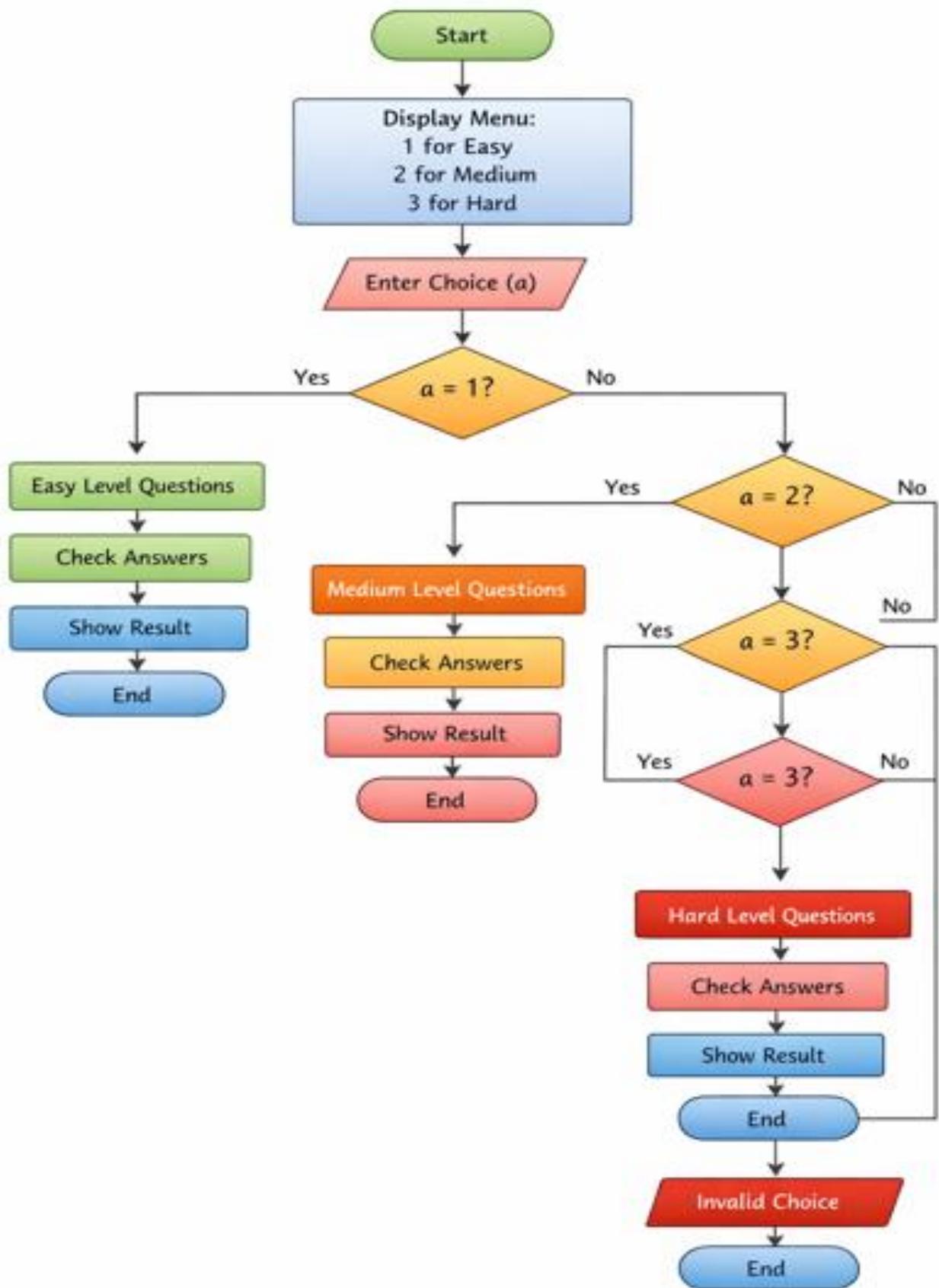
    default:
        cout<<"You enter wrong number to play.";
    }
}

return 0;
}

```

5.Flow Chart:

The flow chart of our project is as follows:



6.Working:

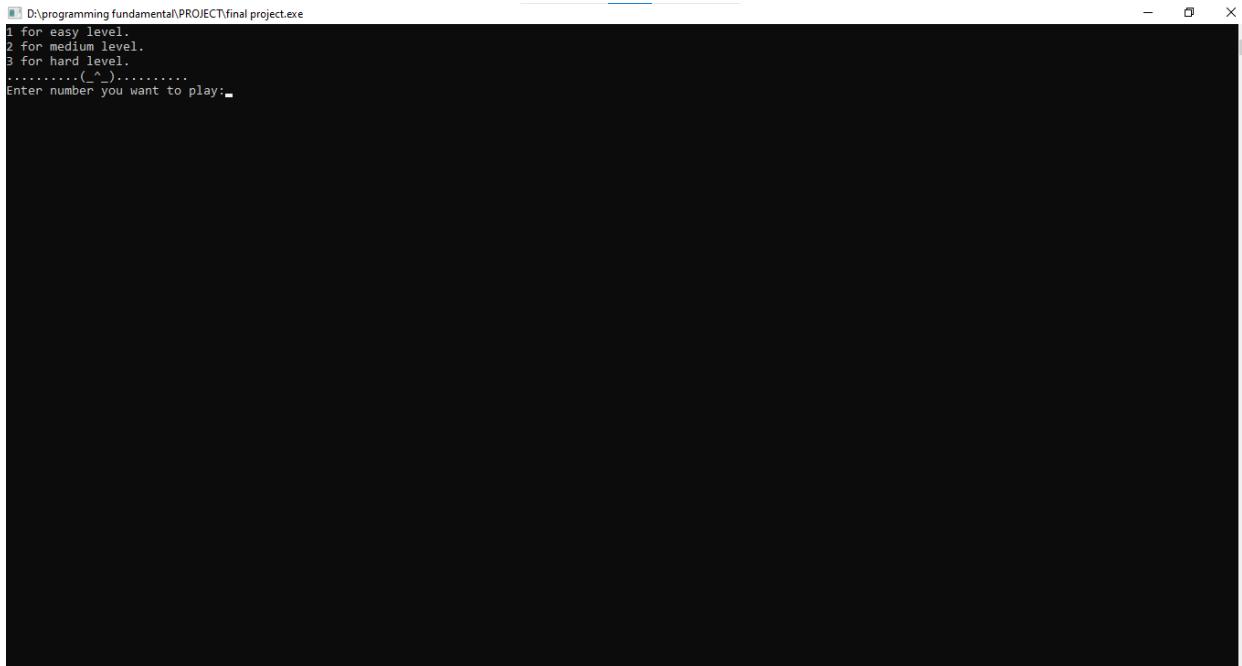
The program starts by displaying a **menu** to the player with three difficulty levels. The player is asked to enter a number (1, 2, or 3) to select the desired level. Based on the selection, the **10 quiz questions** related to general knowledge. The program accepts user input for each question by using cin function. After each answer, the program checks the correct answer by using if statements. For every correct answer, the program increments the score by 1. After all, 10 questions are answered, the program displays the **total number of correct answers**.Based on the score, the program shows a result message:

- Score ≤ 4 → “YOU LOSE THE GAME”
- Score 5–8 → “VERY GOOD! KEEP IT UP”
- Score 9–10 → “YOU WON THE GAME”

The program ends after executing the whole program.

7.OutPut Screen:

All output screens:



```
D:\programming fundamental\PROJECT\final project.exe
1 for easy level.
2 for medium level.
3 for hard level.
.....(^_)^.....
Enter number you want to play:-
```

Menu Output

```
D:\programming fundamental\PROJECT\final project.exe
1 for easy level.
2 for medium level.
3 for hard level.
.....(^).....
Enter number you want to play:1
Your easy level start.

.....Best of Luck.....
What is the name of our galaxy?
Ans:cosmos

Which bird can fly the highest in the sky?
Ans:eagle

What do we drink that comes from cows?
Ans:milk

What do we call the device used to take photos?
Ans:camera

Which is the biggest animal on Earth?
Ans:whale

What do bees make?
Ans:honey

How many colors are in a rainbow?
Ans:7

Which animal is known as the King of the Jungle?
Ans:lion

What do we call the baby of a cat?
Ans:kitten

Which planet is known as the Red Planet?
Ans:mars

Your correct answers are:8

.....
.....
.....
.....
.....
.....
.....
.....
Process exited after 133.9 seconds with return value 0
Press any key to continue . . .
```

Easy level

```
D:\programming fundamental\PROJECT\final project.exe
1 for easy level.
2 for medium level.
3 for hard level.
.....(^).....
Enter number you want to play:2
Your medium level start.

.....Best of Luck.....
What is the largest desert in the world?
Ans:sahara

Which planet has the most moons?
Ans:saturn

Which animal is known for laughing sounds?
Ans:hyena

What gas do plants produce during photosynthesis?
Ans:oxygen

Which sea creature has three hearts?
Ans:octopus

What is the fastest land animal?
Ans:cheeta

Which planet is called the Morning Star?
Ans:venus

Who wrote Romeo and Juliet?
Ans:shakespeare

Which animal can sleep standing up?
Ans:horse

How many bones are there in the adult human body?
Ans:206

Your correct answers are:8

.....
.....VERY GOOD!KEEP IT UP.....
```

Medium level

```
D:\programming fundamental\PROJECT\final project.exe
1 for easy level.
2 for medium level.
3 for hard level.
.....(^).....
Enter number you want to play:3
Your hard level start.

.....Best of Luck.....
What is the rarest blood type in humans?
Ans:a-

Which element is named after a planet?
Ans:mercury

Which is the only metal that is liquid at room temperature?
Ans:mercury

Which organ can regenerate itself completely?
Ans:liver

Who discovered penicillin?
Ans:fleming

Which bird lays the largest eggs?
Ans:ostrich

Who is known as the "Father of Computers"?
Ans:babbage

Which memory is volatile?
Ans:ram

What is the speed of light in vacuum (approx)?
Ans:299792458

Which gas makes up most of the Earth's atmosphere?
Ans:nitrogen

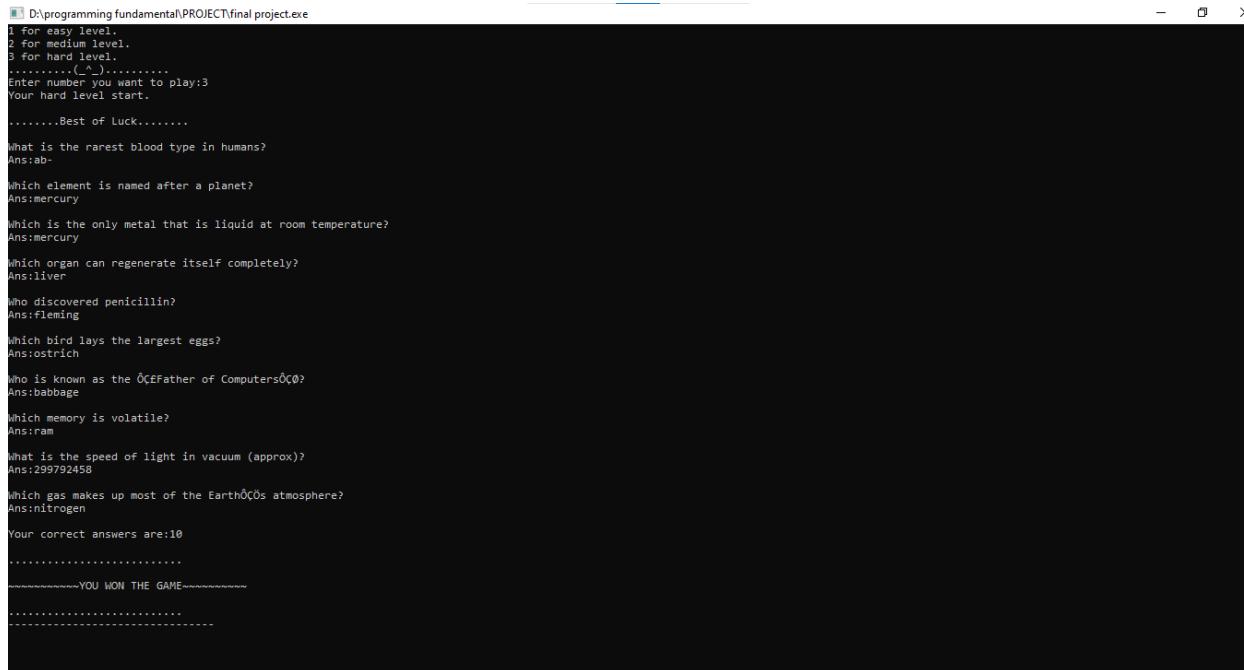
Your correct answers are:10

.....
~~~~~YOU WON THE GAME~~~~~
```

Hard level

8.Testing Sample Run:

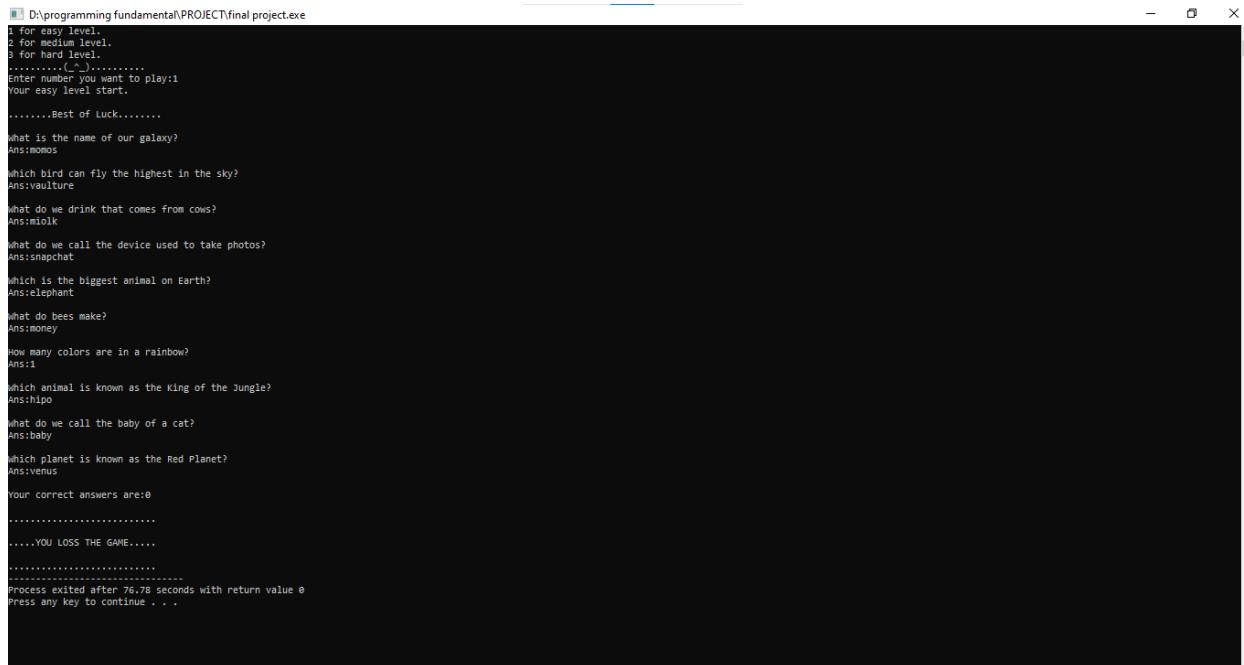
- All correct:



```
D:\programming fundamental\PROJECT\final project.exe
1 for easy level.
2 for medium level.
3 for hard level.
.....(^).....
Enter number you want to play:3
Your hard level start.
.....Best of Luck.....
What is the rarest blood type in humans?
Ans:ab-
Which element is named after a planet?
Ans:mercury
Which is the only metal that is liquid at room temperature?
Ans:mercury
Which organ can regenerate itself completely?
Ans:liver
Who discovered penicillin?
Ans:fleming
Which bird lays the largest eggs?
Ans:ostrich
Who is known as the 'Father of Computers'?
Ans:babbage
Which memory is volatile?
Ans:ram
What is the speed of light in vacuum (approx)?
Ans:299792458
Which gas makes up most of the Earth's atmosphere?
Ans:nitrogen
Your correct answers are:10
.....
-----YOU WON THE GAME-----
```

Show message if all answer is correct "YOU WON THE GAME".

- All wrong:



```
D:\programming fundamental\PROJECT\final project.exe
1 for easy level.
2 for medium level.
3 for hard level.
.....(^).....
Enter number you want to play:1
Your easy level start.
.....Best of Luck.....
What is the name of our galaxy?
Ans:momo
Which bird can fly the highest in the sky?
Ans:vulture
What do we drink that comes from cows?
Ans:milk
What do we call the device used to take photos?
Ans:snapchat
Which is the biggest animal on Earth?
Ans:elephant
What do bees make?
Ans:money
How many colors are in a rainbow?
Ans:1
Which animal is known as the King of the jungle?
Ans:lion
What do we call the baby of a cat?
Ans:baby
Which planet is known as the Red Planet?
Ans:venus
Your correct answers are:0
.....
....YOU LOSS THE GAME.....
.....
Process exited after 76.78 seconds with return value 0
Press any key to continue . . .
```

Show message if all answer is wrong "YOU LOSS THE GAME".

9.Conclusion:

The Quiz Game project in C++ is a beginner-friendly program that helps players test general knowledge while practicing basic programming concepts like **variables, functions, and conditional statements**. It demonstrates modular programming through different difficulty levels and provides a simple scoring system. Overall, it enhances programming skills and logical thinking **for beginners**.

10.References:

- <https://chat.openai.com/>
 - https://www.canva.com/?utm_source=chatgpt.com
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