

### Source code :-

[illegible]

```

void sci_que()
{
    cout<<endl<<"\t 1. Wilting in plants occurs because of____"<<endl
    <<"\t a.) The blockage of phloem \t\t b.) The blockage of xylem"<<endl
    <<"\t c.) increased transpiration \t\t d.) Both a and b"<<endl;
    cout<<"Choose the correct option : ";
    cin>>c1;
    if(c1 == 'b')
    {
        count = count+3;
        cout<<"You have selected the correct option!!!"<<endl;
        cout<<"Press Enter to continue!!!!!"<<endl;
    }
    else{
        cout<<"Wrong option"<<endl;
        cout<<"Press Enter to continue!!!!!"<<endl;
    }
    getch();

```

```

    cout<<endl<<"\t 2. The xylem in plants are responsible for: "<<endl
    <<"\t a) transport of water \t\t b) transport of amino acids "<<endl
    <<"\t c) transport of food \t\t d) transport of oxygen "<<endl;
    cout<<"Answer : ";
    cin>>c2;
    if(c2 == 'a')
    {
        count = count+3;
        cout<<"You have selected the correct option!!!"<<endl;
        cout<<"Press Enter to continue!!!!!"<<endl;
    }
    else{
        cout<<"Wrong option"<<endl;
        cout<<"Press Enter to continue!!!!!"<<endl;
    }
    getch();

```

```

    cout<<endl<<"\t 3. In the eye donation, which part of the eye is transplanted from
the donor?"<<endl
    <<"\t a) Lens \t\t b) Retina "<<endl
    <<"\t c) Cornea \t\t d) The whole eye "<<endl;
    cout<<"Answer : ";
    cin>>c3;
    if(c3 == 'c')
    {
        count = count + 3;
        cout<<"You have selected the correct option!!!"<<endl;
        cout<<"Press Enter to continue!!!!!"<<endl;
    }

```

```

    }
    else{
        cout<<"Wrong option"<<endl;
        cout<<"Press Enter to continue!!!!"<<endl;
    }
    getch();

```

cout<<endl<<"\t 4. A person having AB-group of blood can donate blood to a person having"<<endl

```

    <<"\t a) AB-group \t\t b) B-group "<<endl
    <<"\t c) O-group \t\t d) A-group "<<endl;
    cout<<"Answer : ";
    cin>>c4;
    if(c4 == 'a')
    {
        count = count+3;
        cout<<"You have selected the correct option!!!"<<endl;
        cout<<"Press Enter to continue!!!!"<<endl;
    }
    else{
        cout<<"Wrong option"<<endl;
        cout<<"Press Enter to continue!!!!"<<endl;
    }
    getch();

```

cout<<endl<<"\t 5. The acid stored in batteries is:"<<endl

```

    <<"\t a) Nitric acid \t\t b) Sulphuric acid"<<endl
    <<"\t c) Hydrochloric acid \t\t d) Acetic acid"<<endl;
    cout<<"Answer : ";
    cin>>c5;
    if(c5 == 'b')
    {
        count = count + 3;
        cout<<"Great!!!You have completed the Quiz"<<endl;
        cout<<endl<<"Your total score of Quiz is "<<count<<endl;
    }
    else{
        cout<<"Wrong option"<<endl;
        cout<<"Press Enter to continue!!!!"<<endl;
    }
    cout<<endl<<"Your total score of the Quiz is "<<count<<" outoff "<<15<<endl;
    getch();
}
void gk_que();
void oops_que();
void c_que();
};

```

```

void Questions :: oops_que()
{
    cout<<endl<<"\t 1. Which of the following type of class allows only one object of it to be
created?"<<endl
    <<"\t a) Virtual class \t\t b) Abstract class"<<endl
    <<"\t c) Singleton class\t\t d) Friend class"<<endl ;
    cout<<"Answer : ";
    cin>>c1;
    if(c1=='c')
    {
        count = count+3;
        cout<<"You have selected the correct option!!!"<<endl;
        cout<<"Press Enter to continue!!!!!"<<endl;
    }
    else
    {
        cout<<"Wrong option"<<endl;
        cout<<"Press Enter to continue!!!!!"<<endl;
    }
    getch();

    cout<<endl<<"\t 2. Which of the following is not a type of constructor?"<<endl
    <<"\t a) Copy constructor \t\t b) Friend constructor"<<endl
    <<"\t c) Default constructor \t d) Parameterized constructor"<<endl;
    cout<<"Answer : ";
    cin>>c2;
    if(c2=='b')
    {
        count = count+3;
        cout<<"You have selected the correct option!!!"<<endl;
        cout<<"Press Enter to continue!!!!!"<<endl;
    }
    else
    {
        cout<<"Wrong option"<<endl;
        cout<<"Press Enter to continue!!!!!"<<endl;
    }
    getch();

    cout<<endl<<"\t 3. Which of the following is not the member of class?"<<endl
    <<"\t a) Static function \t\t b) Friend function"<<endl
    <<"\t c) Const function \t\t d) Virtual function"<<endl;
    cout<<"Answer : ";
    cin>>c3;
    if(c3=='b')
    {

```

```

    count = count+3;
    cout<<"You have selected the correct option!!!"<<endl;
    cout<<"Press Enter to continue!!!!!"<<endl;
}
else
{
    cout<<"Wrong option"<<endl;
    cout<<"Press Enter to continue!!!!!"<<endl;
}
getch();

```

cout<<endl<<"\t 4. Which of the following concepts means determining at runtime what method to invoke?"<<endl

```

<<"\t a) Data hiding \t\t b) Dynamic Typing"<<endl
<<"\t c) Dynamic binding \t\t d) Dynamic loading"<<endl;
cout<<"Answer : ";
cin>>c4;
if(c4=='a')
{
    count = count+3;
    cout<<"You have selected the correct option!!!"<<endl;
    cout<<"Press Enter to continue!!!!!"<<endl;
}
else
{
    cout<<"Wrong option"<<endl;
    cout<<"Press Enter to continue!!!!!"<<endl;
}
getch();

```

cout<<endl<<"\t 5. Which of the following term is used for a function defined inside a class?"<<endl

```

<<"\t a) Member Variable \t\t b) Member function"<<endl
<<"\t c) Class function \t\t d) Classic function"<<endl;
cout<<"Answer : ";
cin>>c5;
if(c5=='b')
{
    count = count+3;
    cout<<"You have selected the correct option!!!"<<endl;
    cout<<"Press Enter to continue!!!!!"<<endl;
}
else
{
    cout<<"Wrong option"<<endl;
    cout<<"Press Enter to continue!!!!!"<<endl;
}

```

```

cout<<endl<<"Your total score of Quiz is "<<count<<" outoff "<<15<<endl;
getch();

}

void Questions :: gk_que()
{
    cout<<endl<<"\t 1. Which state has the largest area?"<<endl
    <<"\t a) Maharashtra \t\t b) Madhya Pradesh"<<endl
    <<"\t c) Uttar Pradesh \t\t d) Rajasthan"<<endl;
    cout<<"Answer : ";
    cin>>c1;
    if(c1=='d')
    {
        count=count+3;
        cout<<"You have selected the correct option!!!"<<endl;
        cout<<"Press Enter to continue!!!!!"<<endl;
    }
    else
    {
        cout<<"Wrong option"<<endl;
        cout<<"Press Enter to continue!!!!!"<<endl;
    }
    getch();

    cout<<endl<<"\t 2. When India's national football team was established?"<<endl
    <<"\t a) 1937 \t\t b) 1938"<<endl
    <<"\t c) 1940 \t\t d) 1952"<<endl ;
    cout<<"Answer : ";
    cin>>c2;
    if(c2=='a')
    {
        count=count+3;
        cout<<"You have selected the correct option!!!"<<endl;
        cout<<"Press Enter to continue!!!!!"<<endl;
    }
    else
    {
        cout<<"Wrong option"<<endl;
        cout<<"Press Enter to continue!!!!!"<<endl;
    }
    getch();

    cout<<endl<<"\t 3. The first newspaper published in India was ?"<<endl
    <<"\t a) The Hindu \t\t b) The Amrita Bazar Patrika"<<endl
    <<"\t c)The Bengal Gazette \t d) The Samachar Darpan"<<endl;
    cout<<"Answer : ";

```

```

cin>>c3;
if(c3=='c')
{
    count=count+3;
    cout<<"You have selected the correct option!!!"<<endl;
    cout<<"Press Enter to continue!!!!!"<<endl;
}
else
{
    cout<<"Wrong option"<<endl;
    cout<<"Press Enter to continue!!!!!"<<endl;
}
getch();

```

```

cout<<endl<<"\t 4. Who was the First Vice president of India ?"<<endl
<<"\t a) Dr. Radhakrishnan \t\t b) Dr. Rajender Prasad"<<endl
<<"\t c) Vallabhhai Patel \t\t d) Dr. B. R. Ambedkar"<<endl;
cout<<"Answer : ";
cin>>c4;
if(c4=='a')
{
    count=count+3;
    cout<<"You have selected the correct option!!!"<<endl;
    cout<<"Press Enter to continue!!!!!"<<endl;
}
else
{
    cout<<"Wrong option"<<endl;
    cout<<"Press Enter to continue!!!!!"<<endl;
}
getch();

```

```

cout<<endl<<"\t 5. Which is the smallest country in the world ?"<<endl
<<"\t a) Vatican \t\t b) Italy"<<endl
<<"\t c) Spain \t\t d) Nepal"<<endl;
cout<<"Answer : ";
cin>>c5;
if(c5=='a')
{
    count = count + 3;
    cout<<"Great!!!You have completed the Quiz"<<endl;
}
else
{
    cout<<"Wrong option"<<endl;
    cout<<"Press Enter to continue!!!!!"<<endl;
}

```

```

cout<<endl<<"Your total score of Quiz is "<<count<<" outoff "<<15<<endl;
getch();
}

```

```

void Questions :: c_que()
{
    cout<<endl<<"\t 1. Who is the father of C language?"<<endl
    <<"\t a) Steve Jobs \t\t b) James Gosling"<<endl
    <<"\t c) Dennis Ritchie \t d) Rasmus Lerdorf"<<endl;
    cout<<"Answer : ";
    cin>>c1;
    if(c1=='c')
    {
        count=count+3;
        cout<<"You have selected the correct option!!!"<<endl;
        cout<<"Press Enter to continue!!!!!"<<endl;
    }
    else
    {
        cout<<"Wrong option"<<endl;
        cout<<"Press Enter to continue!!!!!"<<endl;
    }
    getch();
}

```

```

cout<<endl<<"\t 2. Which of the following is not a valid C variable name?"<<endl
<<"\t a) int number; \t\t b) float rate;"<<endl
<<"\t c) int variable_count; \t d) int $main;"<<endl;
cout<<"Answer : ";
cin>>c2;
if(c2=='d')
{
    count=count+3;
    cout<<"You have selected the correct option!!!"<<endl;
    cout<<"Press Enter to continue!!!!!"<<endl;
}
else
{
    cout<<"Wrong option"<<endl;
    cout<<"Press Enter to continue!!!!!"<<endl;
}
getch();
}

```

```

cout<<endl<<"\t 3. All keywords in C are in __"<<endl

```



```

<<"\t a) LowerCase letters \t\t b) UpperCase letters"<<endl
<<"\t c) CamelCase letters \t\t d) None of the mentioned"<<endl;
cout<<"Answer : ";
cin>>c3;
if(c3=='a')
{
    count=count+3;
    cout<<"You have selected the correct option!!!"<<endl;
    cout<<"Press Enter to continue!!!!!"<<endl;
}
else
{
    cout<<"Wrong option"<<endl;
    cout<<"Press Enter to continue!!!!!"<<endl;
}
getch();

```

cout<<endl<<"\t4. Extern int fun(); - The declaration indicates the presence of a global function defined outside the current module or in another file."<<endl

```

<<"\t a) True \t\t b) False"<<endl
<<"\t c) Maybe \t\t d) None of the above"<<endl;
cout<<"Answer : ";
cin>>c4;
if(c4=='d')
{
    count=count+3;
    cout<<"You have selected the correct option!!!"<<endl;
    cout<<"Press Enter to continue!!!!!"<<endl;
}
else
{
    cout<<"Wrong option"<<endl;
    cout<<"Press Enter to continue!!!!!"<<endl;
}
getch();

```

cout<<endl<<"\t 5. Which of the following is not an operator in C?"<<endl

```

<<"\t a) ,\t\t b) sizeof()"<<endl
<<"\t c) ~ \t\t d) None of the mentioned"<<endl;
cout<<"Answer : ";
cin>>c5;
if(c5=='d')
{
    count=count+3;

```

```

        cout<<"You have selected the correct option!!!"<<endl;
        cout<<"Press Enter to continue!!!!!"<<endl;
    }
else
{
    cout<<"Wrong option"<<endl;
    cout<<"Press Enter to continue!!!!!"<<endl;
}
cout<<endl<<"Your total score of Quiz is "<<count<<" outoff "<<15<<endl;
getch();
}

class Quiz1 : public Quiz{           //Derived class
public:
void cal_marks()
{
    if(count==15)
    {
        cout<<" You have scored full marks in Quiz!!!!!!!"<<endl;
    }
    if(count>=11 && count<=14)
    {
        cout<<" You have scored good marks"<<endl;
    }
    if(count>=7 && count<=10)
    {
        cout<<" You have scored less marks , Better luck next time!!!"<<endl;
    }
    if(count<7)
    {
        cout<<"You have failed in the quiz"<<endl;
    }
}
};

int main()
{
    Questions q1 , q2 , q3 , q4;
    Quiz1 k;
    Quiz p;
    Quiz *pointer = &p;

    pointer-> style1();
    pointer-> get_bio();
    cout<<endl<<"\tEach Question carries 3 marks in this Quiz!!!"<<endl<<endl;

    char op;

```

label:

```
cout<<endl<<"Choose your favorite subject from the options given below."<<endl;
```

```
cout<<"a) C++ "<<endl
```

```
<<"b) Science "<<endl
```

```
<<"c) General Knowledge "<<endl
```

```
<<"d) C programming "<<endl;
```

```
cout<<endl<<"Enter your option ";
```

```
cin>>op;
```

```
if(op=='a')
```

```
{
```

```
    cout<<" Good choice!! You have selected c++ Quiz"<<endl;
```

```
    q1.oops_que();
```

```
}
```

```
if(op=='b')
```

```
{
```

```
    cout<<"Good choice!! You have selected Science Quiz"<<endl;
```

```
    q2.sci_que();
```

```
}
```

```
if(op=='c')
```

```
{
```

```
    cout<<"Good choice!! You have selected General Knowledge Quiz"<<endl;
```

```
    q3.gk_que();
```

```
}
```

```
if(op=='d')
```

```
{
```

```
    cout<<"Good choice!! You have selected C programming Quiz"<<endl;
```

```
    q4.c_que();
```

```
}
```

```
cout<<endl;
```

```
k.cal_marks();
```

```
string opinion;
```

```
cout<<endl<<"Do you wanna try this fun game again for any other subject?"
```

```
<<"(Yes/No)"<<endl;
```

```
cin>>opinion;
```

```
if(opinion == "yes")
```

```
{
```

```
    count = 0;
```

```
    goto label;
```

```
}
```

```
else{
```

```
    exit;
```

```
}
```

```
cout<<endl;
```

```
pointer-> end_msg();
```

```
return 0;  
}
```

This is a quiz game where you have to select your desired subject from the given options. Once you chose your favorite topic the game will ask you questions regarding that subject. There are 5 questions of each subject, containing 3 marks each. After completion of the quiz the game will ask you if you want to play the game for any other subject, if you chose yes then again it will give you the options for the subjects, if you chose no then the programme will exit!

# WELCOME

Enter your first and last name  
Siddhi Shalekar

Each Question carries 3 marks in this Quiz!!!

Choose your favorite subject from the options given below.

- a) C++
- b) Science
- c) General Knowledge
- d) C programming

Enter your option a

Good choice!! You have selected c++ Quiz

1. Which of the following type of class allows only one object of it to be created?

- a) Virtual class
- b) Abstract class
- c) Singleton class
- d) Friend class

Answer : c

You have selected the correct option!!!

Press Enter to continue!!!!

2. Which of the following is not a type of constructor?

- a) Copy constructor
- b) Friend constructor
- c) Default constructor
- d) Parameterized constructor

Answer : c

Wrong option

Press Enter to continue!!!!

3. Which of the following is not the member of class?

- a) Static function
- b) Friend function
- c) Const function
- d) Virtual function

Answer : b

You have selected the correct option!!!

Press Enter to continue!!!!

4. Which of the following concepts means determining at runtime what method to invoke?

- a) Data hiding
- b) Dynamic Typing
- c) Dynamic binding
- d) Dynamic loading

Answer : c

Wrong option

Press Enter to continue!!!!

5. Which of the following term is used for a function defined inside a class?

- a) Member Variable
- b) Member function
- c) Class function
- d) Classic function

Answer : b

You have selected the correct option!!!

Press Enter to continue!!!!

Your total score of Quiz is 9 outoff 15

You have scored less marks , Better luck next time!!!

Do you wanna try this fun game again for any other subject? (Yes/No)  
yes

Choose your favorite subject from the options given below.

- a) C++
- b) Science

c) General Knowledge

d) C programming

Enter your option b

Good choice!! You have selected Science Quiz

1. Wilting in plants occurs because of \_\_\_\_

- a.) The blockage of phloem
- b.) The blockage of xylem
- c.) increased transpiration
- d.) Both a and b

Choose the correct option : c

Wrong option

Press Enter to continue!!!!

2. The xylem in plants are responsible for:

- a) transport of water
- b) transport of amino acids
- c) transport of food
- d) transport of oxygen

Answer : a

You have selected the correct option!!!

Press Enter to continue!!!!

3. In the eye donation, which part of the eye is transplanted from the donor?

- a) Lens
- b) Retina
- c) Cornea
- d) The whole eye

Answer : c

You have selected the correct option!!!

Press Enter to continue!!!!

4. A person having AB-group of blood can donate blood to a person having

- a) AB-group
- b) B-group
- c) O-group
- d) A-group

Answer : a

You have selected the correct option!!!

Press Enter to continue!!!!

5. The acid stored in batteries is:

```

5. The acid stored in batteries is:
a) Nitric acid          b) Sulphuric acid
c) Hydrochloric acid    d) Acetic acid
Answer : b
Great!!!You have completed the Quiz

Your total score of Quiz is 12

Your total score of the Quiz is 12 outoff 15

You have scored good marks

Do you wanna try this fun game again for any other subject? (Yes/No)
yes

Choose your favorite subject from the options given below.
a) C++
b) Science
c) General Knowledge
d) C programming

Enter your option c
Good choice!! You have selected General Knowledge Quiz

1. Which state has the largest area?
a) Maharashtra          b) Madhya Pradesh
c) Uttar Pradesh         d) Rajasthan
Answer : b
Wrong option
Press Enter to continue!!!!

2. When India's national football team was established?
a) 1937                  b) 1938
c) 1940                  d) 1952
Answer : d

```

```

Wrong option
Press Enter to continue!!!!

3. The first newspaper published in India was ?
a) The Hindu             b) The Amrita Bazar Patrika
c) The Bengal Gazette    d) The Samachar Darpan
Answer : d
Wrong option
Press Enter to continue!!!!

4. Who was the First Vice president of India ?
a) Dr. Radhakrishnan     b) Dr. Rajender Prasad
c) Vallabhbhai Patel     d) Dr. B. R. Ambedkar
Answer : b
Wrong option
Press Enter to continue!!!!

5. Which is the smallest country in the world ?
a) Vatican               b) Italy
c) Spain                 d) Nepal
Answer : a
Great!!!You have completed the Quiz

Your total score of Quiz is 3 outoff 15

You have failed in the quiz

Do you wanna try this fun game again for any other subject? (Yes/No)
yes

Choose your favorite subject from the options given below.
a) C++
b) Science
c) General Knowledge
d) C programming

```

```

Enter your option d
Good choice!! You have selected C programming Quiz

1. Who is the father of C language?
a) Steve Jobs            b) James Gosling
c) Dennis Ritchie        d) Rasmus Lerdorf
Answer : c
You have selected the correct option!!!
Press Enter to continue!!!!

2. Which of the following is not a valid C variable name?
a) int number;           b) float rate;
c) int variable_count;   d) int $main;
Answer : d
You have selected the correct option!!!
Press Enter to continue!!!!

3. All keywords in C are in __
a) LowerCase letters     b) UpperCase letters
c) CamelCase letters     d) None of the mentioned
Answer : c
Wrong option
Press Enter to continue!!!!

4. Extern int fun(); - The declaration indicates the presence of a global function defined outside the current module or in another file
a) True                  b) False
c) Maybe                 d) None of the above
Answer : a
Wrong option
Press Enter to continue!!!!

5. Which of the following is not an operator in C?
a) ,                    b) sizeof()
c) ~                    d) None of the mentioned

```

Answer : d

You have selected the correct option!!!

Press Enter to continue!!!!

Your total score of Quiz is 9 outoff 15

You have scored less marks , Better luck next time!!!

Do you wanna try this fun game again for any other subject? (Yes/No)

no

Congratulations!!!! Siddhi Bhalekar you have succeseefully completed the Quiz game!!!!

...Program finished with exit code 0

Press ENTER to exit console.