HELLO EVERYONE

Time to do some more logic-building questions on your own.

1. Write a c++ program to take 2 numbers as input and print the addition, multiplication, division, remainder, the quotient of those 2 numbers.

2. Write a c++ program to find the average of 3 numbers

3. Write a c++ program to find Simple Interest

4. Write a program to convert temperature in degree Celsius to Fahrenheit

5. Write a program to convert temperature in Fahrenheit to Celsius.

5. Write a c++ program to check whether an entered number is positive or negative

6. Write a c++ program to check whether an entered year is a Leap year or not.

7. Write a menu-driven program for a simple calculator.

(Implement this using if-else as well as Switch case statement)

8. Write a c++ program to find the largest among 3 numbers

9. Write a c++ program to find the grade of a student. Take input marks of 3 subjects and calculate the percentage.

    If percentage >= 85 print A grade,

    If percentage < 85 && percentage >= 75 print B grade,

    If percentage < 75 && percentage >= 50 print C grade,

    If percentage < 50 && percentage >= 30 print D grade,

    If percentage <30 print fail

10. Write a c++ program to print whether an entered number is prime or not

11. Write a c++ program to swap 2 numbers using a third variable

12. Write a c++ program to swap 2 numbers without using third variable.

13. Write a c++ program to find quotients and reminders.

14. Write a c++ program to find whether the alphabet is a vowel or constant.

15. Write a c++ program that tells how many 100, 50, 20, 10, 5, 2 and 1 rupees notes will be needed for a given amount of money.

For example 1: if the amount entered by the user is Rs. 845 then eight 100 rupees notes, two 20 rupees notes, one 5 rupees note will be needed.

INPUT:

total amount = 748

the note which you want to begin = 50

OUTPUT:

50 rupees note = 14

20 rupees note = 2

10 rupees note = 0

5 rupees note = 1

2 rupees note = 1

1 rupees note = 1

16. Predict the output:

```
#include<bits/stdc++.h>
using namespace std;

int main()
{
    int a = 9;
    if(a=5)
        cout << "Value of a is 5" << endl;
    else
        cout << "Value of a not 5" << endl;
        cout << "Value of b is 5" << endl;
    return 0;
}
```

17. Predict the output:

```
#include<bits/stdc++.h>
using namespace std;

int main()
{
    int a = 0;
    if(a=0)
        cout << "Value of a is 0" << endl;
    else
        cout << "Value of a not 0" << endl;
        cout << "Value of b is 0" << endl;
    return 0;
}
```

18. Predict the output:

```
#include<bits/stdc++.h>
using namespace std;

int main()
{
    int a = 0;
    if(a=0)
        cout << "Value of a is 0" << endl;
    else
        cout << "Value of a not 0" << endl;
        cout << "Value of b is 0" << endl;
    return 0;
}
```

19. Predict the output:

```
#include<bits/stdc++.h>
using namespace std;

int main()
{
    int a = 20, b = 3;
    if(a<10)
        a = a-5;
        b = b+5;
        cout << a << “ ” << b << endl;
    return 0;
}
```

20. Predict the output:

```
#include<bits/stdc++.h>
using namespace std;

int main()
{
   int a = 9, b = 0, c = 0;
   if(!a<10 && !b || c)
      cout << “The Coders Association Club” << endl;
   else
      cout << “THE CODERS ASSOCIATION CLUB” << endl;
   return 0;
}
```

21. Predict the output:

```
#include<bits/stdc++.h>
using namespace std;

int main()
{
   int a = 1, b = 9;
   if(a>=5 && b<5)
      a=b+2;
      cout << a << endl;
   return 0;
}
```

22. Predict the output:

```
#include<bits/stdc++.h>
using namespace std;

int main()
{
   int a = 10;
   a==50;
   if( a==50)
      cout << “a is fifty” << endl;
   else
      cout << “a is not fifty” << endl;
   return 0;
}
```

23. Predict the output:

```
#include<bits/stdc++.h>
using namespace std;

int main()
{
    int a = 0, b = 0;

    if(!a)
    {
        b != a;
        if(b)
            a!=b;
     }
     cout << a << " " << b << endl;
    return 0;
}
```

23. Predict the output:

```
#include<bits/stdc++.h>
using namespace std;

int main()
{
    int a = 0, b = 0;

    if(!a)
    {
        b != a;
        if(b)
            a!=b;
     }
     cout << a << " " << b << endl;
    return 0;
}
```

24.Predict the output:

```
#include <bits/stdc++.h>
using namespace std;

int main()
{
   int x = 2, y = 20;
   switch (x)
   {
   y = 30;
   case 1:
      y++;
      break;

   case 2:
      y--;
      break;

   default:
      y=y+2;
      break;
   }
   cout << y << endl;
   return 0;
}
```

24.Predict the output:

```
#include <bits/stdc++.h>
using namespace std;

int main()
{
    int var = 2, x = 1, y = 2;
    switch (var)
    {
    case x:
       x++;
       break;

    case y:
       y++;
       break;
    }
    return 0;
}
```

Strict instructions:

• You all have to do these questions in your compiler and the Mentors will check anytime in the class

The codes written by the students should not be copied from anywhere.

I Repeat, No Plagiarism accepted.

All the questions/explanations should be done on the compiler.

Regards,

The Coders Association Club