C++ Assignments | Conditionals-2 | Week 2

1. Write a program to count the minimum number of notes in a given amount using the switch statement.

   Input 1: 510

   Output1 : notes of "500" = 1 and notes of "10" = 1

2. Predict the output:

```cpp
#include<iostream>
using namespace std;

int main( ) {
    int a = 5, b, c ;        a has 5
    b = a = 15 ;             a has 15 and b has 15
    c = a < 15 ;             15<15 ? false so c has 0
    cout << "a = " << a << ", b = " << b << " , c = "<< c ;    output:
return 0;                                                      a= 15 , b= 15 , c=0
}
```

3. Predict the output:

```cpp
#include<iostream>
using namespace std;

int main() {
    int x = 3 ;
    float y = 3.0 ;
    if (x == y)    (float)3==3.0? true so
    cout <<"x and y are equal"  ;    output = x and y are equal
    else
    cout << "x and y are not equal"  ;
    return 0;
}
```

4. predict the output:

```
#include<iostream>
using namespace std;

int main(){
    int test = 0;
    cout << "First character " << '1' << endl;
    cout << "Second character " << (test ? 3 : '1') << endl;
    return 0;
}
```

output:
First character 1
Second character 49

first character '1'

second character print then check (0? false so)
print '1' but 3 is int and 1 is char so both convert into int bcs int has higher in
hierarchy than char so (int)1 ie 49 print

5. predict the output:

```
#include <iostream>
using namespace std;
int main(){
    int a = 18; int b = 12;
    bool t = (a > 20 && b < 15)? true : false;
    cout <<"Value of t: " << t ;
    return 0;
}
```

18>20 && 12<15? true : false

Value of t: 0   so t= false bcs 18<20

output: 0

6. predict the output:

```
#include <iostream>
using namespace std;
int main() {
    int number = -4;
    char result;
    result = number > 0 ? 'P' : 'N';
    cout << result << endl;
    return 0;
}
```

-4>0? as its false so N print and both P and N are char
so no implicit conversion takes place and result has N

output: N

*Note:- Please try to invest time doing the assignments which are necessary to build a strong foundation.
Do not directly Copy Paste using Google or ChatGPT. Please use your brain😀.*