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

```
#include<iostream>
using namespace std;
int main()
{
int amount;
int n1,n2,n5,n10,n20,n50,n100,n200,n500;

n1 = n2 = n5 = n10 = n20 = n50 = n100 = n200 = n500 =0;
cout<<"Please Enter Your total Amount to find the notes : ";
cin>>amount;
switch(amount>=500)
{
case 1:
n500 = amount/500;
amount -= n500 * 500;
break;
}
switch(amount >=200)
{
case 1:
n100 = amount/200;
amount -= n200 * 200;
break;
}
switch(amount >=100)
{
```

```
case 1:
n100 = amount/100;
amount -= n100 * 100;
break;
}
switch(amount >=50)
{
case 1:
n50 = amount/50;
amount -= n50 * 50;
}
switch(amount >=20)
{
case 1:
n20 = amount/20;
amount -= n20 * 20;
break;
}
switch(amount >=10)
{
case 1:
n10 = amount/10;
amount -= n10 * 10;
break;
}
switch(amount >=5)
{
case 1:
n5= amount/5;
amount -= n5* 5;
```

```
break;
}
switch(amount >=2)
{
case 1:
n2= amount/2;
amount -= n2* 2;
break;
}
switch(amount >=1)
{
case 1:
n2= amount/1;
amount -= n1* 1;
break;
}
cout<<"minimum notes required  ";
cout<<n1+n2+n5+n10+n20+n50+n100+n200+n500;
}
```

2. Predict the output:

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

int main( ) {
 int a = 5, b, c ;
 b = a = 15 ;
 c = a < 15 ;
 cout << "a = " << a << ", b = " << b << " , c = "<< c ;
return 0;
}
```

Output:

a=15,b=15,c=

3.Predict the output:

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

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

Output:
x and y are equal

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

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;
}
```

Output:

Value of t: 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;
}
```

Output:

N