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

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

int main() {
    int amount;
    cout << "Enter the amount: ";
    cin >> amount;
    int count2000 = 0, count500 = 0, count100 = 0;
    int count50 = 0, count20 = 0, count10 = 0;

    switch (amount >= 2000) {
        case 1: count2000 = amount / 2000;
                amount = amount % 2000;
    }
    switch (amount >= 500) {
        case 1: count500 = amount / 500;
                amount = amount % 500;
    }
    switch (amount >= 100) {
        case 1: count100 = amount / 100;
                amount = amount % 100;
    }
    switch (amount >= 50) {
        case 1: count50 = amount / 50;
                amount = amount % 50;
    }
    switch (amount >= 20) {
        case 1: count20 = amount / 20;
                amount = amount % 20;
    }
    switch (amount >= 10) {
        case 1: count10 = amount / 10;
                amount = amount % 10;
    }
    cout << "2000 notes: " << count2000 << endl;
    cout << "500 notes: " << count500 << endl;
    cout << "100 notes: " << count100 << endl;
    cout << "50 notes: " << count50 << endl;
    cout << "20 notes: " << count20 << endl;
    cout << "10 notes: " << count10 << endl;

    return 0;
}
```

Output

```
Output
/tmp/bPsv42Jfcc.o
Enter the amount: 510
2000 notes: 0
500 notes: 1
100 notes: 0
50 notes: 0
20 notes: 0
10 notes: 1


=== Code Execution Successful ===
```

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 = 0

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 (it is because of ascii value.)

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