



1. Write a program to check if a person is eligible to vote. A person is eligible to vote if their age is 18 or older. Additionally, check if the age is above 60, and print that the person is a senior citizen eligible to vote.

## Example:

Input: 65
Output:

You are eligible to vote.

You are a senior citizen.

## Answer:

2. Write a program that ask the user to enter the item number and prints the price of this item according to the following:

```
No 1 price 100,
NO 2 price 200,
No 3 price 300,
No 4 price 400
```

## Answer:

```
#include <iostream>
using namespace std;
int main() {
```





```
int itemNumber;
     cout << "Enter the item number (1 to 4): ";
     cin >> itemNumber;
     if (itemNumber >= 1 && itemNumber <= 4)
       if (itemNumber == 1)
         cout << "The price of item 1 is 100." << endl;</pre>
        else if (itemNumber == 2)
         cout << "The price of item 2 is 200." << endl;
       else if (itemNumber == 3)
         cout << "The price of item 3 is 300." << endl;
       else if (itemNumber == 4)
         cout << "The price of item 4 is 400." << endl;
     }
   else
       cout << "Invalid item number. Please enter a number between 1 and 4." << endl;
     return 0;
   }
   3. What is the output of the following code?
int a = 10;
int b = 20;
cout << (a > b ? a : b);
a) 10
b) 20
c) 30
d) Error
          4. What is the output of the following code?
int num = 6;
if (num \% 2 == 0) {
 if (num \% 3 == 0)
   cout << "Divisible by 2 and 3";
  else
```





```
cout << "Divisible by 2 only";
} else {
  cout << "Not divisible by 2";
}
a)Divisible by 2 and 3
b) Divisible by 2 only
c) Not divisible by 2
d) Error
   4. What is the output of the following code?
int x = 7;
if (x > 5)
  if (x < 10)
    cout << "x is between 5 and 10";
  else
    cout << "x is greater than or equal to 10";</pre>
else
  cout << "x is less than or equal to 5";
       a)x is between 5 and 10
       b) x is greater than or equal to 10
       c) x is less than or equal to 5
       d) Error
```

Evaluate the following C++ expressions:

Expression	Evaluation
x + z * y / w where x =2, y=3, z = - 4, and	x + 2 * 3 / w
w=5.	x + 6 / 5= 2+1=3





k - = n + 7 where k=11 and n = - 4.	k -= -4 + 7
	k - = 3
	k=11-3=8
y = x++ + y;	y = x++ + y;
z = ++x + y++;	y = 4++ + 10=14
where z = 5, y = 10, x =4.	z = ++x + y++;
Assume z, y, and x are integer data type.	z = ++4 + 10++;
	z = 5 + 10++=15