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```
1.
if (x < 0) {
  x = 7;
  cout <<"x is now positive";</pre>
} else {
  x = -7;
  cout << "x is now negative";</pre>
2. Self Test Exercise
3.
#include <iostream>
using namespace std;
int main() {
  const float number of liters in a gallon = 3.78533;
  float number_of_gallons;
  cout << "Please enter the number of gallons: \n";
  cin >> number of gallons;
  number_of_gallons = number_of_liters_in_a_gallon *
number of gallons;
  cout << "The equivalent number of liters is: " << number_of_gallons;</pre>
  return 0;
}
4. 10
   7
  4
   1
```

5. There will be no output because x is not less than 0.

6. 10 7

## 7. -42

- 8. A while loop is a control flow statement that allows code to be executed reportedly on a given Boolean condition. A do-while loop is similar to while loop with the only difference that it checks for the condition after executing the statements.
- 9. The program will be an infinite loop output a number starting from 10 then 13, 16, 19 etc...

```
10.
#include <iostream>
using namespace std;
int main() {
   int number = 1;
   while (number < 10) {
      cout << number << "\n";
      number++;
   }
   return 0;
}</pre>
```