#### 8. Keyword, Variable & Data Type

```
5 int main()
6 {
7     int id, age;
8     float cgpa = 3.92;
9
10     id = 1302020017;
11     age = 31;
12
13     cout < "Student Id : " << id << endl;
14     cout << "Student age: " << age << endl;
15     cout << "Student cgpa: " << cgpa << endl;</pre>
```

## 9. String Variable

```
#include <iostream>
#include <conio.h>
using namespace std;

Codeium: Refactor | Explain | Generate Function Comment | ×
int main()
{
    char name[13] = "Shakil";

    cout << "My name is : " << name <<endl;
    getch();
}</pre>
```

Output: Name: My name is: Shakil

#### 10. How to Get User Input

## 13. Calculating Area of Triangle

```
1 #include <iostream>
   #include <conio.h>
   using namespace std;
   int main()
       int num1, num2, result;
cout << "Enter num1 : ";</pre>
       cin >> num1;
      cout ≪ "Enter num2 : ";
      cin >> num2;
      result = num1 + num2;
       cout ≪ "sum is : " ≪ result ≪ endl;
      result = num1 - num2;
       cout << "sub is : " << result << endl;</pre>
       result = num1 * num2;
       cout << "Mul is : " << result << endl;</pre>
       result = num1 / num2;
       cout ≪ "div is : " ≪ result ≪endl;
      result = num1 % num2;
       cout ≪ "Remainder is : " ≪ result ≪endl;
       getch();
```

## 14. Temperature Converter

## 15. Assignment Operator

```
#include <iostream>
#include <conio.h>
using namespace std;
int main()
    int y = 2;
    x += y;
    cout \ll x \ll endl;
    x -= y;
    cout \ll x \ll endl;
    x *= y;
    cout \ll x \ll endl;
    x \not= y;
    cout \propto x \ll endl;
    x %= y;
    cout \ll x \ll endl;
    getch();
```

## 16. Unary Operator

```
// Unary Operator → + (unary plus), - (unary minus), ++ , --
#include <iostream>
#include <conio.h>
using namespace std;

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int main()
{

   int x = 5;
   cout ≪ -x ≪ endl;
   cout ≪ x++ ≪ endl;
   cout ≪ +x ≪ endl;
   cout ≪ x-- ≪ endl;
   cout ≪ x-- ≪ endl;
   cout ≪ --x ≪ endl;
   getch();
}
```

## 20. Bitwise Operator

```
#include <conio.h>
  using namespace std;
6 int main()
    int b = 12;
    c = a & b;
    cout \ll "a & b = " \ll c;
    cout \ll "a | b = " \ll c;
    c = a ^ b;
    cout \ll "a ^ b = " \ll c;
    cout \ll "a \gg 2 = " \ll c;
    cout \ll "a \gg 3 = " \ll c;
    c = a \ll 2;
    cout \ll "a \ll 2 = " \ll c;
   getch();
```

## 21. If Statement | 22. If Else-If Statement

# 24. Even-Odd | Large-Small | Pass-Fail | Absolute Value

```
Letter grade progra
#include <conio.h>
   cout ≪ "Enter your marks = ";
       cout ≪ "Invalid Mark" ≪ endl;
       cout ≪ "Invalid Mark" ≪ endl;
   else if(marks≥80)
   else if(marks≥70)
       cout ≪ "D" ≪ endl;
```

```
1 // large / small number among 3 numbers
   #include <iostream>
4 #include <conio.h>
5 using namespace std;
8 int main()
      int num1, num2, num3, large;
      cout << "Enter 3 numbers: ";</pre>
       cin >> num1 >> num2 >> num3;
      if(num1> num2 && num1 > num3)
           large = num1;
       else if(num2> num1 && num2 > num3)
           large = num2;
       else
           large = num3;
       cout ≪ "Large Number is : " ≪ large ≪ endl;
       getch();
```