

15, 16
5- str2.insert(11, 3, '*');
cout << str2 << endl;

11, 3, '*'

Question 3: CLO2

10 Marks

A- Rewrite an ordered C++ program that reads an array called 'a' that consists of 20 integer numbers, to find and display the smallest element using **smallest** function.

[5 Marks]

| The given code | The code in right order |
|---|-------------------------|
| #include <iostream> | |
| using namespace std; | |
| for(int i = 0; i < 20; i++) | |
| cout << "Enter 20 numbers:" << endl; | |
| { | |
| return small; | |
| } | |
| int main() | |
| if(a[i] < small) | |
| small = a[i]; | |
| cin >> a[i]; | |
| int a[20], small; | |
| small = smallest(a, 20); | |
| int smallest(int a[], int size) | |
| for(int i = 0; i < 20; ++i) | |
| return 0; | |
| int small = a[0]; | |
| { | |
| cout << endl << "Smallest element = " << small; | |
| } | |

- a. **Default constructor** that initiates the two private variables to (employeeNumber = 0 and salary = 0.0).
- b. **Constructor with two parameters** that initiates values of the two private variables.

A- Write the definition of class 'Company'.

[4 Marks]

```
#include <iostream>
using namespace std;
class Company {
public:
    printData()
    int employeeNumber;
    float salary;
};
int main()
{
    employeeNumber = {0}
    float salary = 0.0
```

B- Write the definitions of the following members of class 'Company':

[3 Marks]

- 'printData' function.
- The default **constructor**.
- The two parameters **constructor**.