

Assignment-2

EEN-103

1. What is the output of

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

int main()
{
    int a = 10, b = 20;
    int & b = a;
    b = a++;
    b = &a;
    cout << a << "," << b << endl;
    return 0;
}
```

Justify your answer.

2. Can we define class with **struct**? If so, is it possible to inherit a **struct** from another?
3. Write a C++ program to add and multiply two complex numbers using operator overloading. Also, write the code by expressing the complex numbers in polar coordinate.
4. What are inline and friend functions? Explain them with examples.
5. What is the purpose of **this** pointer? Write a program using class that reads the data from the user and returns it through **this** pointer to the main function by value, reference and pointer.