Object Oriented Programming – Fall 2020

# CP Task 08 – Advanced operators

**Name : Umair Abbas**

**Reg #: L1F19BSCS0442**

**Section: D**

# **Task**:

We have extensively used **dot (.)** and **arrow (->)** operators in OOP while working with classes. There are 2 more similar operators that exists in C++.

* **Dot steric (.\*)**
* **Arrow steric (->\*)**

Your task is to learn about these two operators from text book **[Chapter # 24 , Topic 24.6]** and internet sources and provide the followings for each of both.

1. 2 line description about their operation
2. Whether they are binary or unary
3. Whether it is allow to overload them or not
4. A simplest code example to understand their operation

* The pointer to member operators, (.\*) and (->\*), return the value of specific class member for the object specified on the left side of the expression, The right side must specify the member of class.
* These Are Binary Operators as They have no return type.
* No, we cant overload both of the operators. Overloading is only possible in the case when expression would be undefined.

**Code:**

#include<iostream>

using namespace std;

class A

{

int n;

public:

void num()

{

cout<<n<<endl;

}

};

void arrowsteric(A\* );

void dotsteric(A\* );

int main()

{

A obj;

obj.n=78;

arrowsteric(&obj);

dotsteric(&obj);

return 0;

}

void arrowsteric(A \*ptr1)

{

void(A::\*mptr)()=&A::num;

(ptr1->\*mptr)();

}

void dotsteric(A \*ptr2)

{

int A::\*sptr=&A::n;

cout<<(\*ptr2).\*sptr<<endl;

}