```
2021-10-10 -- Scratchpad of CSE213 (Sec-1)
_____
operator overloading (cont.):
_____
Q: What happens when we write cin>>x; (where x is an int) ?
A: operator method "istream& operator>>(int&);" of istream class is
executed
Q: What happens when we write cin>>str; (where str is a string) ?
       - the expected operator method "istream& operator>>(string&);"
does
         not exist in istream class, as string is a class
       - If we could add a new operator method "istream& operator>>
(string&);"
         to istream class, our problem could be solved. But we are
not allowed
         to modify a library class
       - as a second choice, string class author could not add
         "istream& operator>>(istream&);" to string class, because in
that case
         the client MUST be string object and istream object will be
parameter.
         IN THAT CASE, the call would look like: "str>>cin;". Since
the call
         "str>>cin" is not acceptable, then this is not a method of
string class
         either.
       - In reality, string class author add "istream& operator>>
(istream&, string&);"
         this as a global function in the cpp file which contains
string class
_____
if we now want to write:
"cin>>c1"; instead of "c1.setComplexNo();"
we also need to add "istream& operator>>(istream&,ComplexNo&);"
his as a global function in the cpp file which contains ComplexNo
(refer cpp file)
                     //refer image in recording
class OneDArray{
       int sz;
       int* valPtr;
       public:
       int operator[](int index){
               return valPtr[index];
       }
}
```

```
OneDArray arr1;
//code to new & populate with data
cout<<arr1.vaPtr[2]; //if fields are public</pre>
cout<<arr1.getVaPtrAt(2); //if fields are pritave</pre>
cout<<arr1[2];
int main(){
       ComplexNo c1,c2;
       cout<<"Enter real & img for c1: "; cin>>c1;  //1 2
                                                    //1+2i
       cout << "c1 = " << c1 << endl;
       //++c1;
       c2 = ++c1;
       //cout<<"after ++C1, C1 = "<<c1<<endl;
       cout<<"after c2= ++c1, c1 = "<<c1<<endl;
                                                 //2+3i
       cout << "after c2 = ++c1, c2 = "<< c2 << end1;
                                                   //
       return 0;
}
int i=10, j=10, k;
cout<<++i;
              //i will be 11, and 11 will be used for output
cout<<j++; //current value of j (10) will be used for output,
then j will be 11
cout<<"i="<<i<", j="<<j<<endl;
++i;
i++;
these two statements are same when they are used alone
But their impact in expression are not same, if (++) is used in an
expression
when used in expression (++i),
incremented value will be used in expression
when used in expression (i++),
current value will be used in expression, then it will be incremented
______
Customer Requirement Analysis:
_____
As a deliverable of milestone-1, you need to produce a document
called
CRA-report. CRA report contains:
----- for IRAS ------
User-1: Student
       Goal-1: Register course for upcoming semester
              Workflow:
                e-1: check for being defaulter
(doc/payment/provision)
                e-2: date/time/slot varification
                e-3: load applicable courses for add
                . . . . .
```

e-n:

Goal-2: Evaaluate faculty for a registered course of current semester Workflow: e-1: e-2: e-3: e-n: Goal-3: Goal-4: Goal-5: User-2: Faculty Goal-1: Goal-2: Goal-3: Goal-4: Goal-5: User-n: xxxxxx Goal-1: Goal-2: Goal-3: Goal-4: Goal-5:
