4. Write a program that prints the roll number and the marks of the student scoring the highest marks among all students in a college, and the roll number, the marks and the department of the student scoring highest marks among the undergraduate (UG) students in that college. Your program should define two types - `Student` and its subtype `UGStudent`. It should accept the roll number and total marks of 3 students, of type `Student`, and the roll number, total marks, and department of 3 UG students, of type `UGStudent`.

   - The class `StudentList` contains a generic array which can store instances of `Student`/ `UGStudent` type. It also provides the iterator to traverse through that array which is implemented using an inner class named `Iter`. Assume that the total marks for each student is unique. Implement the following to complete the program and obtain the specified output.
   - In the class `UGStudent`
     - Complete the definition of constructor.
   - In the class `FClass`
     - Define the generic function `printTopper()` that uses an iterator of `StudentIterator` type to find the `Student` (or `UGstudent`) who obtained the highest total marks, and prints the details by calling the `print()` method.
   - In the class `Iter`
     - Complete the definition of `has_next()` method.

Sample input 1:

```
10 78
11 67
12 98
101 56 EE
102 87 ME
103 33 CE
```

Output:

```
12 : 98
102 : 87 :  ME
```

Sample input 2:

```
1 87
2 67
3 9
1101 56 CSE
1012 76 CSE
1033 78 CSE
```


Output:

```
1 : 87
1033 : 78 :  CSE
```