## DATA COLLECTIONS (CONTAINERS) LAB 02 EC 5080

**SOFTWARE CONSTRUCTION** 

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## **QUESTION 01:**

Part 01:

02.

```
End | Column | Column
```

Here we can get a run time error because the casting did not happen properly. According to the compiler the error is detected on int x = (Integer) strCast.getData(); line.

03.

```
public static void main(String[] args) {
    exCast intCast = new exCast( data: 42);
    exCast strCast = new exCast( data: "hi");
    int x = (Integer) strCast.getData();
    intCast = strCast;
    // Equalising the intCast variable to strCast then the error occur at compile time.
```

When intCast = strCast line added at the end it will give compile time error.

04.

```
| Cost |
```

## **QUESTION 02:**

```
01.
a. Set.
b.
   // I certify the code of this lab is entirely my own work, but I referred the lecture notes
   attached.
   import java.util.LinkedHashSet;
   import java.util.Set;
   public class FindDuplicateElements {
      public static void main(String[] args) {
        int[] data = {11,34,22,67,11,3,54,13,34,90,3,46};
        Set<Integer> set = new LinkedHashSet<Integer>();
        Set<Integer> duplicateSet = new LinkedHashSet<Integer>();
        int i = 0;
        for(int i =0; i< data.length; i++)
          set.add(data[i]);
          if((j+1) == set.size())
             j++;
          }
          else
          {
             duplicateSet.add(data[i]);
          }
        }
        System.out.println(set);
        System.out.println("Duplicate : "+duplicateSet);
      }
   }
```

c.

```
Run: FindDuplicateElements ×

The content of the co
```