



Name : Azaria Cindy Sahasika
Number Id : 2341760169 / 06
Class : 1G – Business Information System
Lesson : Algorithm and Data Structure
Material : Practice 3
Github Link : <https://github.com/azariacindy/algorithm-ds>

1. Recall the final project of the Basic Programming course. Identify 2 classes and their attributes and methods then create a class diagram for each class.

- Class: Member

Member
- memberId int
- memberName String
+ Member(memberId: int, memberName: String)

- Class: User

User
- username String
- password String
- userType String
+ User(username: String, password: String, userType: String)

2. Recall the foreach syntax. How is the following program code equivalent to looping using foreach?

- In this version of the Foreach loop, the variable 'num' is used to refer to each element of the daftarNilai array in turn. The loop will continue until all elements have been visited. Foreach does not require an index variable like 'i' in the regular for loop. Foreach is also more concise and neat.

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```
1 | public class coba {
    Run | Debug
2 |     public static void main(String[] args) {
3 |         int[] daftarNilai = new int[5];
4 |         daftarNilai[0] = 7;
5 |         daftarNilai[1] = 3;
6 |         daftarNilai[2] = 8;
7 |         daftarNilai[3] = 2;
8 |         daftarNilai[4] = 1;
9 |
10 |         // foreach
11 |         for (int num : daftarNilai) {
12 |             System.out.println(num);
13 |         }
14 |
15 |         System.out.println(x:"=====");
16 |
17 |         // for biasa
18 |         for (int i = 0; i < daftarNilai.length; i++) {
19 |             System.out.println(daftarNilai[i]);
20 |         }
21 |     }
22 | }
```

PS D:\cooleyah\smstr2\algorithm and data structure\assignment> java coba

```
7
3
8
2
1
====
7
3
8
2
1
```