LAB2 (ADDITIONAL)

EXERCISE 1

2.15 Pointers to structure are created by taking the address of a structure variable and create
variables that are pointers to the structures.
[*Penuding struktur dicipta dengan mengambil alamat pembolehubah struktur dan
mencipta pembolehubah yang menunjuk kepada struktur tersebut.*]

16. Type in the following code. Study the code and run the program.
[*Taip kod berikut.. Fahamkan aturcara tersebut dan laksanakannya.*]

```cpp
1
2  #include <iostream>
3  using namespace std;
4
5  int main(){
6      struct LecturerInfo{
7              string name;
8              char room[10];
9              int extension;
10     } ;
11     struct  Lecturer{
12             int ID;
13             LecturerInfo contact;
14             string department;
15             char facultyCode[10];
16     };
17     Lecturer dayang = {1234, {"Dayang Norhayati", "306-06",
18                 32354}, "Software Engineering", "FSKSM"};
19
20     Lecturer *me;
21     me = &dayang;
22         cout<<me->contact.name<<endl;
23     cout<<me->department;
24     return 0;
25 }
```

Program 7.2

i. Define an array of structure variable called **lecturerTP2** (maximum size 10)
with the initialized values as follows.
[*Takrifkan pembolehubah tatasusunan berstruktur bernama **lecturerTP2**
(saiz maximum 10) dengan nilai permulaan seperti berikut.*]

Table 7.3

ID	name	room	extension	department	facultyCode
1234	Dayang Norhayati	305-03	32354	Software Engineering	FC
5678	Norazah Yusof	305-06	32341	Software Engineering	FC
9101	Haswadi Hasan	438-08	32374	Computer Science	FC

ii.   Define a pointer variable to point to the third element of the array.
[*Takrifkan pembolehubah penuding yang menunjuk kepada elemen ketiga tatasusunan.*]

iii.   Add your lecturer or other Programming Technique II lecturer into the array using the pointer variable defined in (ii).
[*Tambah pensyarah anda atau pensyarah Teknik Pengaturcaraan II yang lain ke dalam tatasusunan tersebut dengan menggunakan penuding yang ditakrifkan di (ii).*]

iv.   Print all contents of the array using `lecturerTP2` variable.
[*Cetak kesemua kandungan tatasusunan dengan menggunakan pemboleh ubah* `lecturerTP2`.]