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Exercise

1. Create a structure with the following definition:
   - Struct Student consists of student number, name, address, place and date of birth.
   - Address is a struct itself consists of street name, number, city, province.
   - Date of birth is a struct with element: date, month and year.

2. Based on previous exercise create a program to input 5 students data (use array of structure)

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Exercise

3. Based on the following structure:

```
struct automobile {
      int year;
      char model[8];
      int engine_power;
      float weight;
};
```

Create an application using array of structure to input 5 car types, and display them on the screen!

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Exercise

4. Using the following structure:

```
struct ipkmhs {
   char nim[11];
   char name[30];
   float gpa;
};
```

Create a program to input 5 students data and display students with gpa >= 3.0 and gpa < 3.0

Example :

Mhs gpa >=3.0 :
Andi
Budi
Candra

Mhs gpa < 3.0 :
Dadu
Emin

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Exercise

5. Create a structure:

```
struct studentScore {
        char nim[11];
        char name [30];
        char subjectCode [5];
        int sks;
        char grade;
};
```

Create a program (not using array) to receive input for studentScore struct and then display nim, name, subjectCode, sks, and grade.

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Exercise

6. Using previous exercise, consider the following grading and sks table:

Grade	WeightGrade
A	4
B	3
C	2
D	1
E	0

Create a program using array of struct to input 5 subject score of 1st semester then display the student's GPA!

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Exercise

7. Create a program to convert 4 bytes unsigned integer to hexadecimal number system using UNION and BIT-FIELD