Structure

Question 1

- Create a structure called Pet with the values name, weight and age.
- In the main() function:
  - Create structure variable called cats.
  - Ask the user to enter name, weight and age for the cat.
  - Next, display the values on the screen.

SAMPLE OUTPUT

```
Enter cat's name        : Mona
Enter cat's age         : 2
Enter cat's weight      : 3.87

--------------------------------
-       PET'S INFORMATION       -
--------------------------------
Pet name        : Mona
Pet age         : 2
Pet weight      : 3.87 kg
--------------------------------
```

Question 2

- Create a *structure* called *Pet* which consists of name, age and weight.
- In the main() function:
  - Create a *structure array* with 3 elements called *cats* with the following values.
    - Mona, 2, 3.87
    - Felix, 1, 2.2
    - Ben, 2, 4.55
  - Using for loop, determine overweight cats with weight more than 3.5 kg.
  - Display the overweight cat's information as shown below.

SAMPLE OUTPUT

```
----------------------------------------
-       OVERWEIGHT PET INFORMATION      -
----------------------------------------
Pet name        : Mona
Pet age         : 2
Pet weight      : 3.87 kg

Pet name        : Ben
Pet age         : 2
Pet weight      : 4.55 kg
```

Question 3

Using the same structure *Pet* in Question 1, complete the following:

- Create a *structure variable array, cats* with 3 elements in the structure itself.
- In the main() function:
  - Get 3 pets' details from the user.
  - Display all 3 pets' details on the screen.
- Display the output as shown below.

SAMPLE OUTPUT:

```
Enter cat's #1 name     : Mona
Enter cat's #1 age      : 2
Enter cat's #1 weight   : 3.87

Enter cat's #2 name     : Felix
Enter cat's #2 age      : 1
Enter cat's #2 weight   : 2.2

Enter cat's #3 name     : Ben
Enter cat's #3 age      : 2
Enter cat's #3 weight   : 4.55


--------------------------------
-       PET'S INFORMATION       -
--------------------------------
Pet #1 name     : Mona
Pet #1 age      : 2
Pet #1 weight   : 3.87 kg

Pet #2 name     : Felix
Pet #2 age      : 1
Pet #2 weight   : 2.20 kg

Pet #3 name     : Ben
Pet #3 age      : 2
Pet #3 weight   : 4.55 kg
```

Question 4

Using the same structure *Pet* in Question 3, complete the following.

- In the main() function:
  - Call function *getinfo*(), passing structure array cats as parameter.
  - Call function *display*(), passing structure array cats as parameter.
- In function *getinfo*()
  - Get 3 pets' details from the user.
- In function *display*()
  - Display all 3 pets' details on the screen. (similar output to Question 3)

Question 5

Create a *structure* called **Record** with attributes type, price, bouquets and bill.
In the main() function:

- Create a *structure variable array* called **flower** with 4 elements.
- Ask the user to enter values for name, price and bouquets. Calculate the bill for the flower purchase.
- Display only the records of purchase quantity above 5 bouquets.
- Display the output as shown below.

SAMPLE OUTPUT

```
Enter flower's 1 type           : Rose
Enter flower's 1 price          : RM 29
Enter flower's 1 bouquet        : 1

Enter flower's 2 type           : Daisies
Enter flower's 2 price          : RM 17
Enter flower's 2 bouquet        : 10

Enter flower's 3 type           : Tulip
Enter flower's 3 price          : RM 45
Enter flower's 3 bouquet        : 6

Enter flower's 4 type           : Jasmine
Enter flower's 4 price          : RM 35
Enter flower's 4 bouquet        : 4


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-       PURCHASE OF MORE THAN 5       -
--------------------------------------
Name    : Daisies
Bill    : RM 170.00

Name    : Tulip
Bill    : RM 270.00
```