Functions

Question 1

Write a complete program with functions as described below:

- In main ()
  - Call function *displaymenu (….)*
  - Get user input for *movie code* and *number of tickets*.
  - Call function *getprice (….),* passing the *movie code* as argument.
  - Calculate and display *payment = price * number of tickets*.
  - Calculate *total payment = total payment + payment*.
  - Repeat as long as user enter [Y].
  - Call function *displaypayment (….),* passing the *total payment* as argument.
- In function *displaymenu(…):*
  - Display the code, movies and price menu.
- In function *getprice(…):*
  - Parameter: *code*
  - Determine the price based on the movie selection.
  - Return the value.
- In function *displaypayment(…):*
  - Parameter: *total payment*
  - Display *total payment.*

SAMPLE OUTPUT

```
Code    Movies                    Price
*****************************************
S or s  Star Wars                 (RM12.00)
H or h  The Hunger Games          (RM10.00)
D or d  The Good Dinosaur         (RM8.00)
*****************************************

Enter movie code        : S
Enter number of tickets : 5
Payment                 : RM 60.00

Enter [Y] to continue: Y

Enter movie code        : h
Enter number of tickets : 3
Payment                 : RM 30.00

Enter [Y] to continue: N

Total Price: RM 90.00
```

Question 2

Write a program to calculate payment for each fruits.

- In main()
  - Ask the user to enter their choice using the menu as shown below.
    - If user selects 1, call function *getbanana( )* and pass *weight* as argument.
    - If user selects 2, call function *getorange( )* and pass *weight* and *price* as argument.
      - Display the price for 1kg of orange and total price of orange.
  - Repeat for two times using while-loop.
- In function *getbanana()*:
  - Calculate the price. [1 kg of banana = RM 1.80]
  - Display the price for 1kg of banana and total price of bananas.
- In function *getorange( )*:
  - Calculate the total price. [1 kg of orange = RM 2.60]
  - Return the value.

SAMPLE OUTPUT

```
================================
        FRUIT STALL
================================
code of Fruits:
        [1] Banana
        [2] Orange
================================
Enter the fruit's code  : 2
Enter the fruit's weight: 10

Price for 1kg of Orange                 : RM2.60
Total price for 10.00 kg of Orange      : RM26.00

Enter the fruit's code  : 1
Enter the fruit's weight: 5

Price for 1kg of Banana                 : RM1.80
Total price for 5.00 kg of Banana       : RM9.00

Thank you.
```

Question 3

Modify the previous Question 2 program as follows:

- Define the prices as constant.
- In main():
  - Ask the user to enter the weight of banana.
  - Ask the user to enter the weight of orange.
  - Call function *getbanana(...)* and send the *weight of banana* as argument.
  - Call function *getorange(...)* and send the *weight of orange* as argument.
  - Call function *getpayment*(...) and send *price of bananas* and *price of oranges* as argument.
  - Call function *display*(...)and send *weight of banana, weight of orange, price of bananas, price of oranges* and *total price* as argument.
- In function getbanana(...):
  - Calculate the price of banana.
  - Return price to main().
- In function getorange(...):
  - Calculate the price of orange.
  - Return price to main().
- In function getpayment(...):
  - Calculate the total price of all fruits.
  - Return the total price to main().
- In function display(...):
  - Display price of 1 kg for both fruits.
  - Display weight and total price for each fruits.
  - Display total price for all fruits.

SAMPLE OUTPUT

```
============================
       FRUITS STALL
============================
Enter weight of Banana: 5
Enter weight of Orange: 10
============================

Price for 1kg of Banana : RM 1.80
Price for 1kg of Orange : RM 2.60

Price for 5.00 kg of Banana     : RM 9.00
Price for 10.00 kg of Orange    : RM 26.00

Total price: RM 35.00

Thank you.
```