

**Control Structure (Selection)****Question 1**

How many errors in the following code?

```
Switch(a)
{
    case Y: printf("True\n");
    default: printf("False\n");
}
```

**Question 2**

Obtain three numbers from the user. We will assume that the number are not the same. Find the largest of these three numbers and store that value in a variable. Output this variable with an appropriate message.

**Question 3**

Write a program that calculates the nett salary of a user based on their profession.

In the main function:

- Ask user to enter *name*, *staff ID*, *position code*, *salary* and *bonus*.
- Using a **switch case** statement, calculate the nett salary of the user.
  - If user's *position code* is 1
    - User's *position* is "Lecturer".
    - Ask user to enter *allowance*.
    - Calculate the *nett salary*. [*Nett Salary = Salary + Allowance*]
  - If user's *position code* is 2
    - User's *position* is "Clerk".
    - Ask user to enter *bonus*.
    - Calculate the *nett salary* [*Nett Salary = Salary + Bonus*]
  - If user's *position code* is 3
    - User's *position* is "Technician".
    - Technician will get *overtime rate* of RM14.00 per hour. Declare *overtime rate* as **pre-processor directive constant**.
    - Ask user to enter *overtime hours*.
    - Calculate the *nett salary* [*Nett Salary = Salary + Overtime\*OVERTIME RATE*]
  - If user's *position code* is other than 1,2, and 3
    - Set user's *position* as "Invalid".
    - Assign *nett salary* to RM0.00.
- Display all details as per sample output

## SAMPLE OUTPUT 1

```

-----
                        PAYROLL SYSTEM
-----
    1.  Lecturer
    2.  Clerk
    3.  Technician
-----

Enter staff name      : Scarlett Johansson
Enter staff ID        : 200110
Enter position        : 2
Enter salary          : RM 2200
Enter bonus           : RM 1000

Staff Name           : Scarlett Johansson
Staff No.            : 200110
Position             : Clerk
Salary               : RM 2200.00
-----
Nett Salary          : RM 3200.00
-----

```

## SAMPLE OUTPUT 2

```

-----
                        PAYROLL SYSTEM
-----
    1.  Lecturer
    2.  Clerk
    3.  Technician
-----

Enter staff name      : Tom Hiddleston
Enter staff ID        : 200125
Enter position        : 3
Enter salary          : RM 1950
Enter overtime hours  : 5

Staff Name           : Tom Hiddleston
Staff No.            : 200125
Position             : Technician
Salary               : RM 1950.00
-----
Nett Salary          : RM 2020.00
-----

```