

Tutorial#4 BY RIYADH

هذا الفايل للفائدة فقط،
الرجاء حل التوتريال ثم مراجعة الحل عن طريق
الفايل، واذا مافهمت شي بنفس الحل، السؤال
بالقروب.

ايضا احتمال يكون فيه اخطاء، تجنبها يكون عن
طريق التجربة والبحث.

هالكلام "فقط" عشان التوتريال جدا مهم لقياس
انتقانك للمادة لانها راح تمشي معك طول الكلية
وعشان ماتتعب

وشكرا :).

Q1)

```
System.out.printf("Patient name is%13s\n",name);
System.out.printf("Patient age is :%13d\n\n",age);
System.out.printf("Patient weight is:%.2f", weight);
```

Q2)

```
int mark=75;
if(mark >= 60){
    System.out.println("PASS");
}
else
```

a- System.out.println("FAIL");

Explanation : *// in line 2 the if statement finished directly because the semicolon,also at line 3 "pass" will display at any possibility(logic error),and the syntax for the ifelse statement is if (condition) expression-or-block { else expression-or-block } then the compiler detect a error token (else)*

Compilation ERROR && LOGICAL ERROR

```
int mark=75;
if(mark >= 60){
```

b- System.out.println("PASS");

Explanation : *// in line 2 the if statement finished directly because the semicolon, and the print statement will run at any possibility , and it will ignore the if statement , also the compiler will run this code perfectly without any error, but the programmer will not get the achieve goal*

LOGICAL ERROR

```
int mark=75;
if(mark >= 60)
    System.out.println("PASS");
else
```

c- System.out.println("FAIL");

Explanation: *// every thing in this code works fine until line 4, the if-else statement finished after the semicolon, so line 5 will ignore the else statement*

LOGICAL ERROR

```
D- int mark=75;
    if(mark >= 60);
    else
    System.out.println("FAIL");
```

Explanation: *// everything here is fine , no errors*

// (أنا أياها) دكتوركم الكود الكومبايلر والميرمج يبينه بنفس الكود

Equivalent code :

```
int mark=75;
if(mark < 60)
    System.out.println("FAIL");
```

Q3)

```
Scanner input = new Scanner(System.in);
System.out.println("Enter your size number : ");
int size = input.nextInt();

String result = (size < 10) ? "small" :
                (size < 30) ? "medium" : "large";

System.out.println(result);
```

Q4)

1-

Enter a character:
Digit
Program is successfully executed

2-

Enter a character:
Special Character
Program is successfully executed

3-

Enter a character:
Alphabet
Program is successfully executed

4-

Enter a character:
Alphabet
Program is successfully executed