Module 01

Logic
If, else if & else

Data Science Developer

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Assignment Operators

Operator	Example	Same As
=	x = y	x = y
+=	x += y	x = x + y
-=	x -= y	x = x - y
*=	x *= y	x = x * y
/=	x /= y	x = x / y
%=	x %= y	x = x % y
<<=	x <<= y	x = x << y
>>=	x >>= y	x = x >> y
>>>=	x >>>= y	x = x >>> y
&=	x &= y	x = x & y
^=	x ^= y	x = x ^ y
|=	x |= y	x = x | y
**=	x **= y	x = x ** y

Assignment Operators

```
usiaAndi = 40;

usiaAndi *= 2;
print(usiaAndi);
usiaAndi /= 2;
print(usiaAndi);
usiaAndi += 2
print(usiaAndi);
usiaAndi -= 2
print(usiaAndi);
usiaAndi %= 2
print(usiaAndi);
```

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Comparison Operators

==	value sama, dan data type sama
>	lebih dari
<	kurang dari
>=	lebih dari sama dengan
<=	kurang dari sama dengan

Logical Operators

and	(keduanya benar, maka TRUE)
or	(salah satu benar, maka TRUE)
not	(membalik logika TRUE/FALSE)

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Comparison Operators

```
x = 5;
y = '5';

print(x == y);
print(x > int(y));
print(x >= int(y));
print(x < int(y));
print(x <= int(y));
```

Logical Operators

```
x = 5;
y = '5';
z = 6;

print(x==int(y) and int(y)<z);
print(x==int(y) or int(y)<z);
print(not(x==int(y) or int(y)<z));
```

If, else if & else

```
if (condition) :
    program;
elif (condition) :
    program;
else :
    program;
```

If, else if & else

```
nilai = 40;

if (nilai > 80) :
    print('Excellent!');
elif (nilai >= 60 and nilai <= 80) :
    print('Good job!');
else :
    print("Don't give up!");
```

If, else if & else

```
jomblo = True;

if (jomblo) :
    print('Masih jomblo!');
else :
    print('Udah taken!');
```

Solve it! #1

```
PS D:\Purwadhika\Purwadhika\Python Fundamental> python fundamental.py
Masukkan angka : 7
Angka 7 tergolong bilangan GANJIL!
PS D:\Purwadhika\Purwadhika\Python Fundamental> python fundamental.py
Masukkan angka : 6
Angka 6 tergolong bilangan GENAP!
```

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Solve it! #2

IMT = massa(kg) / tinggi(meter)^2

a. IMT < 18.5 artinya berat badan kurang,

b. 18.5 - 24.9 artinya berat badan ideal,

c. 25.0 - 29.9 artinya BB berlebih,

d. 30.0 - 39.9 artinya BB sangat berlebih,

e. IMT > 39.9 artinya obesitas.

```
Masukkan Massa(kg) : 67
Masukkan Tinggi(cm) : 178
Massa 67 kg & tinggi 1.78 m
IMT = 21.146319909102385, BERAT BADAN IDEAL!
```

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