



Big Data with Python

By Odin Outsourcing



Motivational video

1. Coding is not difficult

What did we learn in the previous class?

1. Flow Chart
2. Print value (integer, float, string)
3. Use Python as a calculator
4. Variable and Value
5. Visualization: variable and value

Variable Type

1. `var = 4` `# type(var)`
2. `var = 4.5` `# type(var)`
3. `var = 'Odin'` `# type(var)`
4. `var = 4+11` `# type(var)`
5. `var = 4.75+81` `# type(var)`
6. `var = '4' + '5'` `# type(var)`

Practice Problem

1. Find BMI (Body Mass Index) where weight (w) and height (h) are given.
2. Convert celsius (C) to kelvin (K) and vice-versa.
3. Find the area of circle where radius is given.

BMI Calculation

weight = float(input()) # kg

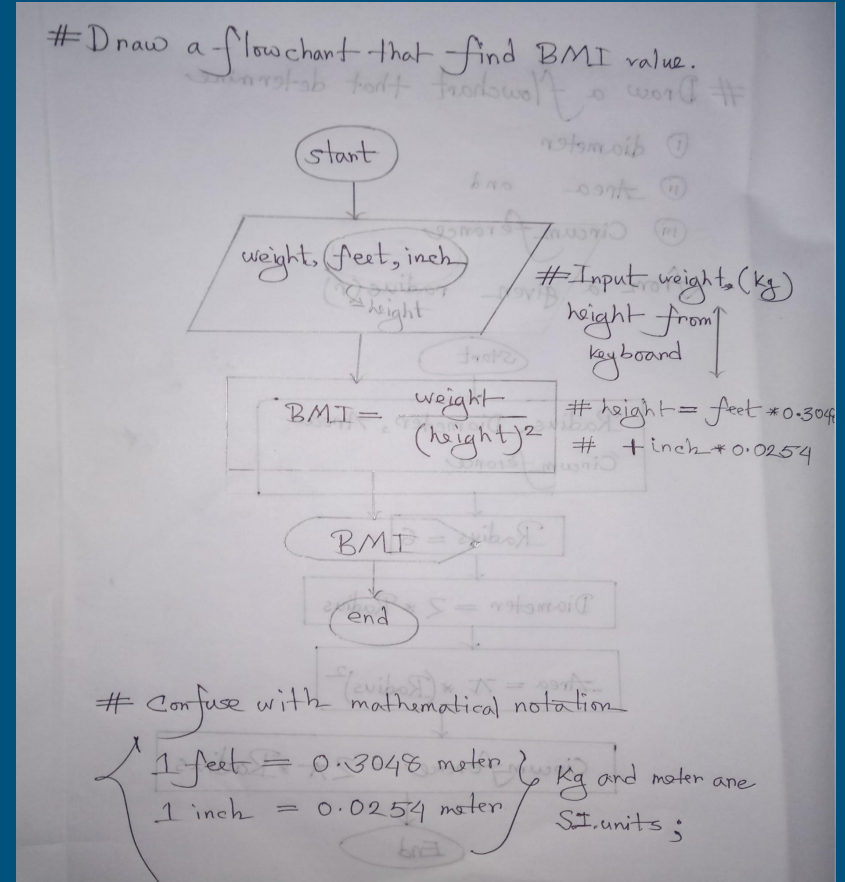
feet = float(input()) # feet

inch = float(input()) # inch

height = (feet * 0.3048) + (inch * 0.0254)

BMI = weight / (height**2.0)

print('You BMI is: {}'.format(BMI))

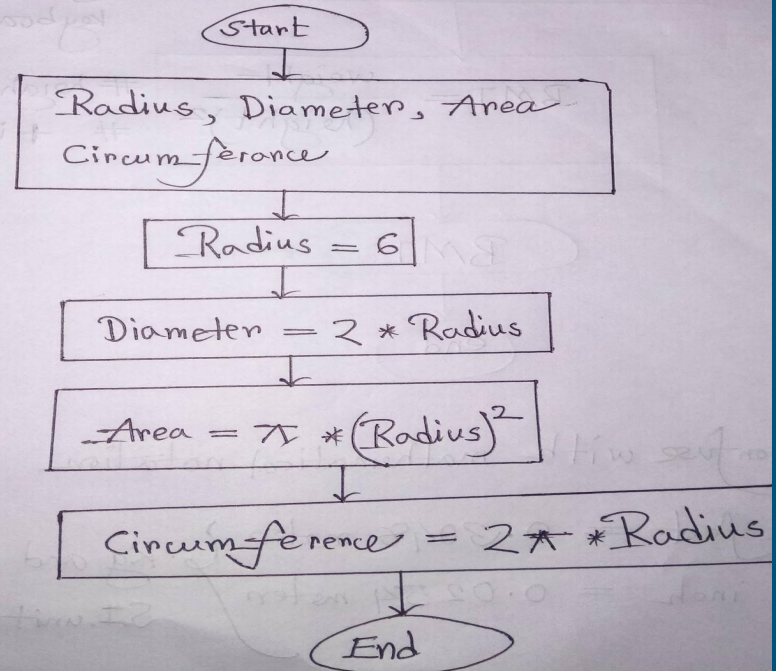


Circle Property

Draw a flowchart that determine

- ① diameter
- ② Area and
- ③ Circumference

from a given radius (r)



Types of Operator (1)

Operator: https://www.tutorialspoint.com/python/python_basic_operators.htm

Practice (Compare):

1. `print(5>6)`
2. `print(5>=5)`
3. `print(51<=6)`
4. `print(5==6)`
5. `print(5!=6)`
6. `print(5<6)`

Types of Operator (2)

4. `v = 4`

```
print(2<v<9)
```

5. `v = 2`

```
print(2<=v<9)
```

6. `v = 2`

```
print(2<v<=9)
```

Types of Operator (3)

Practice (Logical):

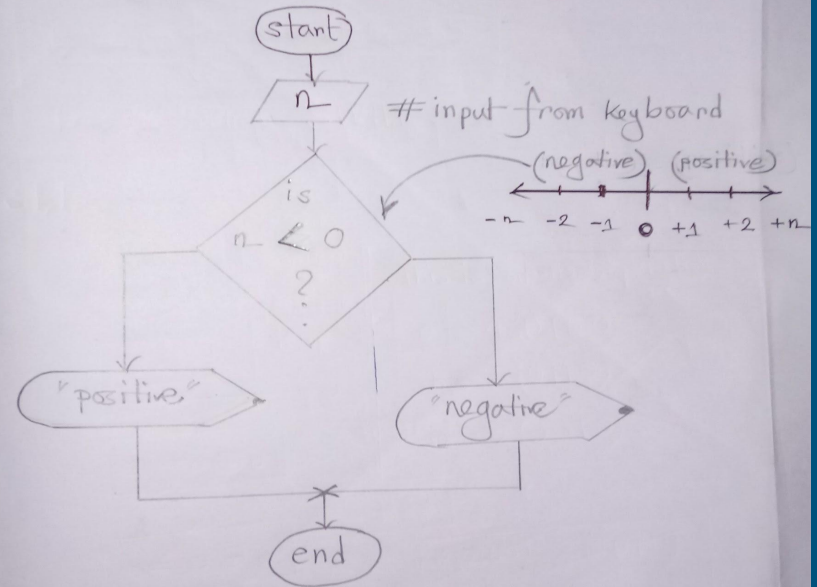
1. `print((5!=6) && (6==5))`
2. `print((5!=6) || (6==5))`
3. `print((5==6) || (6==5))`

p	q	$p \wedge q$
T	T	T
T	F	F
F	T	F
F	F	F

p	q	$p \vee q$
T	T	T
T	F	T
F	T	T
F	F	F

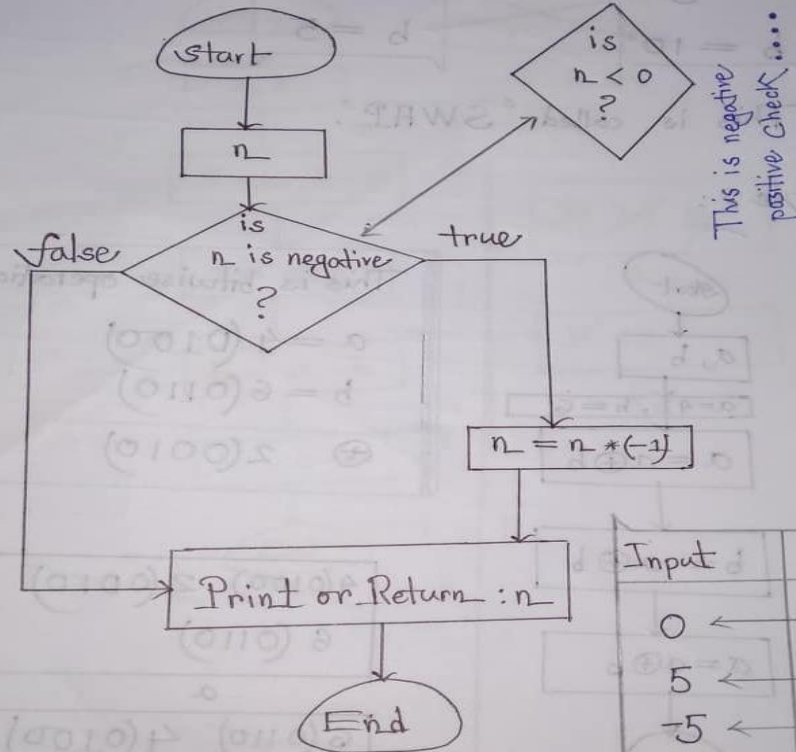
Conditional-1

Draw a flow chart that determines whether a value is positive or negative?



Conditional-2

Draw a flowchart that print or return absolute value of a number.



Practice

1. Fizz-Buzz
2. Find leap year from a given year.

Contract your instructor!

Find Me: <http://rafsanjani.pythonanywhere.com/contact>

Course Website: <https://mrzresearcharena.github.io/Big-Data-using-Python>



Thank you!