Session 1- Homework

- How to check a variable’s type?

If you are not sure what class a value falls into, Python has a function called type which can tell you.

**>>>** type("Hello, World!") <class ’str’> **>>>** type(17) <class ’int’>

- In what cases, you will get ***SyntaxError*** from the compiler telling you that some of your variables have **invalid names**? Can you give 3 different examples of **invalid names**?

+ Tên biến không bắt đầu bằng một chữ cái, vd: 69C4E = “code for everyone”

+ Trong tên biến chứa ký tự đặc biệt, vd: C4E! = 123

+ Tên trùng với các Keywords đặc biệt trong Python, vd: Import = 1.0

EX1: Calculate area of a circle

import math

from math import pi

rad = float(input("Radius of the circle is:"))

s = (rad\*\*2) \* pi

print("The area of the circle is:", s)

EX2: converts Celsius (0C) into Fahrenheit (0F)

cel = float(input("enter the temperature in celsius"))

fah = (cel \* 1.8) + 32

print("Temperature is", fah, "F")

EX3: Turtle exercise

from turtle import \*

speed(-1)

shape("turtle")

color("green")

fillcolor("yellow")

begin\_fill()

draw square

forward(100)

left(90)

forward(100)

left(90)

forward(100)

left(90)

forward(100)

left(90)

draw equilateral triangle

forward(100)

left(120)

forward(100)

left(120)

forward(100)

draw circle

circle(100)

draw Multi-circles

for i in range(300):

circle(100)

left(30)

end\_fill()

mainloop()