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Problem Set 1

Code (.py)

# -\*- coding: utf-8 -\*-

"""

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"""

# 1

print("Output for question 1.")

print(2) # '2'

print(3\*\*2) # 9

print(7//3) # 2

print(7/3) # 2.3333

print(7%3) # 1

print(2+2) # 4

print(10\*2) # 20

print()

#2

print("Output for question 2.")

Name1 = 'Kentucky '

Name2 = "Wildcats"

#What is the output from each of the following lines of command? Verify your answers in Spyder.

print(type(Name1)) # str

print(type(Name2)) # str

print(Name1+Name2) # Kentucky Wildcats

print(Name2+Name1) # WildcatsKentucky

print(Name2+' @ '+Name1) # Wildcats @ Kentucky

print(3\* Name2) # WildcatsWildcatsWildcats

print()

#3

print("Output for question 3.")

x=3.458

y=-2.35

# what is the result for each of the following?

print(type(x)) # float

print(type(y)) # float

print(round(x,2)) # 3.46

print(round(y,1)) # -2.4

print(round(x,0)) # 3.0

print()

#4

print("Output for question 4.")

a=57

b=-3

c=0

# What is the outcome from each of the following?

print(type(b)) # int

print(str(a)) # '57'

print(float(c)) # 0.0

print()

#5

print("Output for question 5.")

print(type(5==9)) # bool

print('8<7') # '8<7'

print(5==9) # False

print(type('5==9')) # str

print(type('8<7')) # str

print(type('True')) # str

print()

#6

print("Output for question 6.")

print(int(-23.0)) # -23

print(int("56")) # 56

print(int(-2.35)) # -2

print(str(-23.0)) # '-23.0'

print(float(8)) # 8.0

print()

#7

print("Output for question 7.")

print(int(True)) # 1

print(float(False)) # 0.0

print(str(False)) # 'False'

print()

#8

print("Output for question 8.")

print(bool(0)) # False

print(bool(-23)) # True

print(bool(17.6)) # True

print(bool('Python')) # True

print()

#9

print("Output for question 9.")

print("global # no reserved keyword in python.")

print("2print # no starts with a number instead of letter or underscore.")

print("print2 # yes")

print("\_squ # yes")

print("list # no built in function")

print()

#10

print("Output for question 10.")

for letter in ("A", "B", "C"):

if letter == "B":

break

for num in (1, 2):

print(f"this is {letter}{num}") # A1 A2

print()

#11

print("Output for question 11.")

for letter in ("A", "B", "C"):

if letter == "B":

continue

for num in (1, 2):

print(f"this is {letter}{num}") # A1 A1 C1 C2

print()

#12

print("Output for question 12.")

for letter in ("A", "B", "C"):

if letter == "B":

pass

for num in (1, 2):

print(f"this is {letter}{num}") # all

print()

#13

print("Output for question 13.")

for letter in ("A","B"):

for num in (1,2):

print(f"this is {letter}{num}") # A1 A2 B1 B2

Output

Output for question 1.

2

9

2

2.3333333333333335

1

4

20

Output for question 2.

<class 'str'>

<class 'str'>

Kentucky Wildcats

WildcatsKentucky

Wildcats @ Kentucky

WildcatsWildcatsWildcats

Output for question 3.

<class 'float'>

<class 'float'>

3.46

-2.4

3.0

Output for question 4.

<class 'int'>

57

0.0

Output for question 5.

<class 'bool'>

8<7

False

<class 'str'>

<class 'str'>

<class 'str'>

Output for question 6.

-23

56

-2

-23.0

8.0

Output for question 7.

1

0.0

False

Output for question 8.

False

True

True

True

Output for question 9.

global # no

2pirnt # no

print2 # yes

\_squ # yes

list # no

Output for question 10.

this is A1

this is A2

Output for question 11.

this is A1

this is A2

this is C1

this is C2

Output for question 12.

this is A1

this is A2

this is B1

this is B2

this is C1

this is C2

Output for question 13.

this is A1

this is A2

this is B1

this is B2