Problem Set 1

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Code (.py)
# -*- coding: utf-8 -*-
Created on Tue Jan 10 10:44:58 2023
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111111
# 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
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print(Name1+Name2) # Kentucky Wildcats
print(Name2+Name1) # WildcatsKentucky
print(Name2+' @ '+Name1) # Wildcats @ Kentucky
print(3* Name2) # WildcatsWildcats
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()
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#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

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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):
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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
2.333333333333333
1
4
20
```

Output for question 2.
<class 'str'=""></class>
<class 'str'=""></class>
Kentucky Wildcats
WildcatsKentucky
Wildcats @ Kentucky
WildcatsWildcats
Output for question 3.
<class 'float'=""></class>
<class 'float'=""></class>
3.46
-2.4
3.0
Output for question 4.
<class 'int'=""></class>
57
0.0
Output for question 5.
<class 'bool'=""></class>
8<7
False
<class 'str'=""></class>
<class 'str'=""></class>
<class 'str'=""></class>

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

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

Output for question 11.