Python Activity 1.3.2

Activities:

Submit your solutions in a single text file.

Activity 1:

What will the following code print out?

x = 43

x = x + 1

print (x)

a) 43

b) 44

c) x + 1

d) Error because x = x + 1 is not possible mathematically

Submit your answer.

The answer is B - 44

Activity 2:

Write a sequence of statements into the Python interpreter to prompt the user for hours and rate per hour,

printing each one, and then to compute gross pay as (hours \* rate). Your output lines should look something

like:

Enter Hours: 35

Enter Rate: 2.75

Pay: 96.25

Don’t worry about making sure that Pay has exactly two digits after the decimal point.

Submit your code and the output by doing a copy/paste from the Python interpreter.

Activity 3:

Assume that we execute the following assignment statements:

width = 17

height = 12.0

For each of the following expressions, write the value of the expression and its type.

1. width / 2

2. width / 2.0

3. height / 3

4. 1 + 2 \* 5

Use the Python interpreter to check your answers. Submit your answers.

Please put your answers into one text file for submission.

Answers:

1. B
2. # Write a sequence of statements into the Python interpreter to prompt the user for hours and rate per hour,

rate = input("Please enter Rate: ")

hrs = input("Please enter Hours: ")

#convert types

rate = float(rate)

hrs = float(hrs)

ttlPay = rate \* hrs

print("Pay:", ttlPay)

# output

# PS C:\repos\text\_mining>  & 'C:\Users\nicktinsley\Anaconda3\python.exe' 'c:\Users\nicktinsley\.vscode\extensions\ms-python.python-2021.12.1559732655\pythonFiles\lib\python\debugpy\launcher' '54152' '--' 'c:\repos\text\_mining\python\ist-652 scripting\Week 1\1.3.2.py'

# Please enter Rate: 10.00

# Please enter Hours: 40

# Pay: 400.0

1. width = 17

height = 12.0

one = width / 2

print(one)

print(type(one))

two = width / 2.0

print(two)

print(type(two))

three = height / 3

print(three)

print(type(three))

four = 1 + 2 \* 5

print(four)

print(type(four))

## output

# 8.5

# <class 'float'>

# 8.5

# <class 'float'>

# 4.0

# <class 'float'>

# 11

# <class 'int'>