Python Activity 1.3.2

Activity Solutions:

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

Correct Response: b) 44

If you type the lines of code into Python, you will see the response of 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.

Correct Response:

```
>>>hours=input('Enter Hours worked:')
   Enter Hours worked:
>>>rate=input('Enter Hourly Rate:')
   Enter Hourly Rate:
>>>pay=int(hours)*float(rate) (remember to convert strings)
>>>print('Total Pay is:',pay)
Total Pay is: 96.25
```

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.

Correct Response:

```
>>> width=17
>>> height=12.0
>>>print(width/2)
8.5
>>> type(width/2)
<class 'float'>
>>> type(width/2.0)
<class 'float'>
>>>print(height/3)
4.0
>>> type(height/3)
<class 'float'>
>>>print(1+2*5)
11
>>> type(1+2*5)
<class 'int'>
```