APS106

MIDTERM REVIEW

RULES OF THE GAME

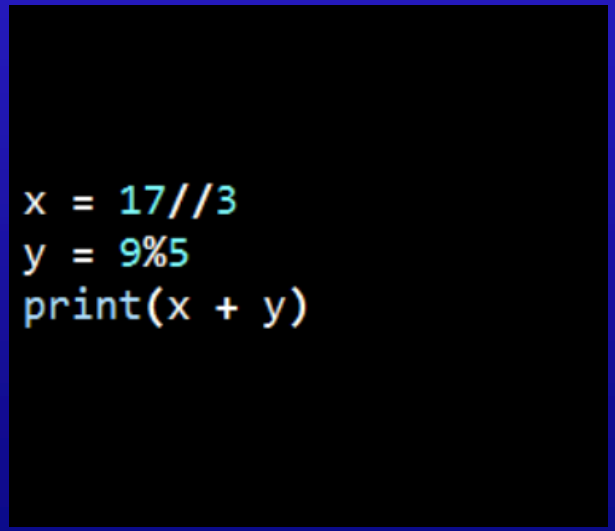
- Must use button on the table to answer question verbally and explain your answer – you will be called on to answer by one of the instructors
- Must tell us which discipline you're in before you answer for points (we'll rely on the honour system)
- If you get the answer right, you pick the next category
- If you get the answer wrong, the next person whose hand is up can steal
- Everyone is here to learn and review for the midterm so be kind to everyone who answers!

PANEL

“HELLO WORLD”	TIME TO COMPARE AND GET LOOPY	TO AND OR NOT TO AND	GET FUNC-Y WITH IT	ERR-ING ON THE SIDE OF CAUTION	
$250	$250	$250	$250	$250	
$500	$500	$500	$500	$500	
$1000	$1000	$1000	$1000	$1000	

"HELLO WORLD" - $250

What is the output?



← BACK TO PANEL

Question board

"HELLO WORLD" - $500

What is the output?

```
x = "Seb"
y = "Ben"
print("My name", "is", x, "and I teach APS106")
print("My name is", y, "and", "I", "teach", "APS106")
```

← BACK TO PANEL

Question board

"HELLO WORLD" · $1000

Verbally describe the function call with syntax that would product this output using a print() statement:

```
hey-how-is-everything
```

← BACK TO PANEL

Question board

TIME TO COMPARE AND GET LOOPY · $250

What are the values of var 1 and var 2 after the following code segment is executed and the while loop finishes?

```
var1 = 0;
var2 = 2;

while ((var2!=0) and ((var1 / var2) >= 0)):

    var1 = var1 + 1;
    var2 = var2 - 1;
```

← BACK TO PANEL

Question board

TIME TO COMPARE AND GET LOOPY · $500

What is the output of the code?

```
print("John" > "Jhon")
print("Emma" < "Emm")
```

← BACK TO PANEL

Question board

TIME TO COMPARE AND GET LOOPY · $1000

Verbally explain what happens in the following piece of code:

```
n = 10
answer = 1
while n > 0:
    answer = answer + n
    n = n + 1
print(answer)
```

← BACK TO PANEL

Question board

TO AND OR NOT TO AND · $250

What is the output?

```
x = 100
y = 50
print(x and y)
```

← BACK TO PANEL

Question board

TO AND OR NOT TO AND · $500

What is the output?

```
x = 10
y = 50
if x ** 2 > 100 and y < 100:
    print(x, y)
```

← BACK TO PANEL

Question board

TO AND OR NOT TO AND · $1000

Which of the following evaluates to True when a is equal to b or when a is equal to 5?

- A. a == b == 5
- B. a = b or a = 5
- C. a == b or a == 5
- D. a = b and a = 5
- E. a == b and a = 5

← BACK TO PANEL

Question board

TO AND OR NOT TO AND · $1000

Which of the following evaluates to True when a is equal to b or when a is equal to 5?

- A. a == b == 5
- B. a = b or a = 5
- C. a == b or a == 5
- D. a = b and a = 5
- E. a == b and a = 5

← BACK TO PANEL

Question board

GET FUNC-Y WITH IT · $250

What is the output?

```
def power3(num):
    print(num**3)

result1 = power3(5)
result2 = result1 + 1
```

What is the outcome of executing the code above?

← BACK TO PANEL

Question board

GET FUNC-Y WITH IT · $250

```
def power3(num):
    print(num**3)

result1 = power3(5)
result2 = result1 + 1
```

What is the outcome of executing the code above?

- ❑ result2 refers to the value 126
- ❑ result2 refers to the value 126 and is printed
- ❑ result1 refers to the value 125 and result2 refers to the value 126
- ✓ TypeError

← BACK TO PANEL

Question board

GET FUNC-Y WITH IT · $500

What is the output?

```
def howbig(n):
     if n > 190:
          return "It’s huge."
     elif n > 160:
          return "It's pretty big."
     else:
          return "It's not so big."
print(howbig(195))
```

← BACK TO PANEL

Question board

GET FUNC-Y WITH IT · $500

```
def howbig(n):
     if n > 190:
          return "It’s huge."
     elif n > 160:
          return "It's pretty big."
     else:
          return "It's not so big."
print(howbig(195))
```

✓ It’s huge.

❑ It’s huge.
It's pretty big.

❑ It’s huge.
It's pretty big.
It's not so big.

❑ It's pretty big.

← BACK TO PANEL

Question board

GET FUNC-Y WITH IT · $1000

Consider this code fragment:

```
>>> def whatlocation(country):
    # Missing function body
>>> location = whatlocation('Canada')
Canada
>>> print(location)
Canada
```

Select the missing function body from the options below.

- ❑ return country print(country)
- ❑ print(country)
- ❑ print(country) return country
- ❑ return country

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← BACK TO PANEL

Question board

GET FUNC-Y WITH IT · $1000

Consider this code fragment:

```
>>> def whatlocation(country):
    # Missing function body
>>> location = whatlocation('Canada')
Canada
>>> print(location)
Canada
```

Select the missing function body from the options below.

- ❑ return country print(country)
- ❑ print(country)
- ✓ print(country) return country
- ❑ return country

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← BACK TO PANEL

Question board

ERR-ING ON THE SIDE OF CAUTION · $250

A program runs and, during running is asked to divide by zero. The program crashes. What type of error is this?

← BACK TO PANEL

Question board

ERR-ING ON THE SIDE OF CAUTION · $500

What will the output be from the following code?

```
print(9/3)
```

← BACK TO PANEL

Question board

ERR-ING ON THE SIDE OF CAUTION · $1000

Q. Part of a code reads:

```
ans = input("The capital of Canada is?")
if(ans == "Ottawa"):
    print ("You are wise")

else:
    print ("You are ignorant")
```

A user inputs "ottawa" and receives the response "You are ignorant".

What kind of error is that?

← BACK TO PANEL

Question board

FINAL JEOPARDY

STATES OF MATTER · FINAL JEOPARDY

Water exists in three states- solid, liquid, and gas. Write a function that takes in the temperature in Celsius and returns a string “solid”, “liquid”, or “gas” depending on the temperature. Write a program using this function that prompts the user for a temperature and prints out the resulting state of water.

← BACK TO PANEL