Preguntas PCAP (Tanda 2)

Which of the following is the output of the below Python code?
list1 = [1, 3]
list2 = list1
list1[0] = 4
print(list2)
○ [1, 3]
O [4, 3]
O [1, 4]
O [1, 3, 4]

O [1, 3]	
O [4, 3]	(Correcto)
O [1, 4]	
O [1, 3, 4]	

Which is the output of the following Python code fragment?
x = True
y=False
z= False
if not x or y:
print (1)
elif not x or not y and z:
print (2)
elif not x or y or not y and x:
print (3)
else:
print (4)
O 4
U 4
O 2
O 3
None

O 4	
O 2	
О 3	(Correcto)
O None	

What will be the output of the following code?
class Test:
definit(self, s):
self.s = s
def print(self):
print(s)
a = Test("Python Class")
a.print()
The program gives an error because there is no constructor for class Test.
Signature for the print method is incorrect, so an error is thrown.
The correct output is .
The above code will execute correctly on changing print(s) to print(self.s).

The program gives an error because there is no constructor for o	class Test.
Signature for the print method is incorrect, so an error is thrown	n.
O The correct output is .	
The above code will execute correctly on changing print(s) to print(self.s).	(Correcto)

0	The program has an error because class Test does not have a constructor.
0	The above code produces an error because the definition of print(s) does not include .
0	It executes successfully but prints nothing.
\cap	The program has an error because of the constructor call is made without an argument.

0	The program has an error because class Test does not have a co	onstructor.
0	The above code produces an error because the definition of pri not include .	nt(s) does
0	It executes successfully but prints nothing.	
0	The program has an error because of the constructor call is made without an argument.	(Correcto)

The program has an error because the constructor is not present in class Test.
The above code produces an error because the definition of print(s) does not contain.
It executes successfully but prints nothing.
The program has an error because of the constructor call is made without an argument.
The program executes successfully and prints Walcome

0	The program has an error because the constructor is not present in class Test.
0	The above code produces an error because the definition of print(s) does not contain .
0	It executes successfully but prints nothing.
0	The program has an error because of the constructor call is made without an argument.
0	The program executes successfully and prints Welcome. (Correcto)

```
class Test:
def __init__(self):
self.x = 1
self._y = 1

def getY(self):
return self._y

val = Test()
print(val.x)
```

0	The program has an error because x is private and cannot be accessed outside of the class.
0	The program has an error because you cannot name a variable using .
0	The program runs fine and prints 1.
0	The program runs fine and prints nothing.

0	The program has an error because x is private and outside of the class.	cannot be accessed
0	The program has an error because you cannot nam	e a variable using .
0	The program runs fine and prints 1.	(Correcto)
0	The program runs fine and prints nothing.	

```
class Test:
def __init__(self):
self.x = 1
self._y = 1
def getY(self):
return self._y
val = Test()
print(val._y)
```

0	The program has an error because y is private and should not access it from outside the class.

- The program has an error because you cannot name a variable using __y.
- The program runs fine and prints 1.
- O The program runs fine and prints nothing

0	The program has an error because y is private and should not access it from outside the class.	(Correcto)
0	The program has an error because you cannot name a variable u	sing _y.
0	The program runs fine and prints 1.	

```
class Test:
def __init__(self):
    self.x = 1
self._y = 1

def getY(self):
    return self._y

val = Test()
val.x = 45
print(val.x)
```

0	The program has an error because x is private and should not access it from outside the
	class.

- The program has an error because you cannot name a variable using __y.
- The program runs fine and prints 1.
- O The program runs fine and prints 45.

0	The program has an error because x is private and shoul from outside the class.	d not access it
0	The program has an error because you cannot name a va	ariable usingy.
0	The program runs fine and prints 1.	
0	The program runs fine and prints 45.	(Correcto)

O _a	
О _ь	(Correcto)
O _c_	
O _d_	

- The program has an error because y is private and should not access it from outside the class.
- The program has an error because you cannot name a variable using __y.
- The code runs fine and prints 1.
- The code executes successfully and prints 45.

0	The program has an error because y is private and should not access it from outside the class. (Correcto)
0	The program has an error because you cannot name a variable usingy.
0	The code runs fine and prints 1.
0	The code executes successfully and prints 45.

```
def main():
    myCounter = Counter()
    num = 0

for i in range(0, 100):
        increment(myCounter, num)

print("myCounter.counter =", myCounter.counter, ", number of times =", num)

def increment(c, num):
    c.counter += 1
    num += 1

class Counter:
    def __init__(self):
        self.counter = 0

main()
```

- counter is 101, number of times is 0
- ounter is 100, number of times is 0
- ounter is 100, number of times is 100
- ounter is 101, number of times is 101

Counter is 101, number of times is 0	
Counter is 100, number of times is 0	(Correcto)
Counter is 100, number of times is 100	
ounter is 101, number of times is 101	

What code can we put at the third line of the definition of class B to invoke its superclass's constructor?

O B and D

0	super()init(self)
0	super()init()
0	Ainit()
0	Ainit(self)

Super()init(self)	
super()init()	
O Ainit()	
Ainit(self)	3)
O B and D	(Correcto)

```
class A:
    def __init__(self, x = 1):
        self.x = x

class B(A):
    def __init__(self, y = 2):
        super().__init__()
        self.y = y

def main():
    b = B()
    print(b.x, b.y)

main()
```

O 00			
O 01			

O 12

O 02

O 00	
O 01	
O 12	(Correcto)
O 02	

```
class A:
def __init__(self):
    self.__x = 1
    self.y = 10

def print(self):
    print(self.__x, self.y)

class B(A):
    def __init__(self):
    super().__init__()
    self.__x = 2
    self.y = 20

c = B()
    c.print()
```

O 110	
O 120	
O 210	
· ·	
O 220	

O 110	
O 120	(Correcto)
O 210	
O 220	

```
class A:
    def __init__(self, x = 0):
        self.x = x
   def func1(self):
        self.x += 1
class B(A):
    def __init__(self, y = 0):
      A.__init__(self, 3)
        self.y = y
    def func1(self):
        self.y += 1
def main():
    b = B()
    b.func1()
    print(b.x, b.y)
main()
```

() 30

O 20			
O 31			
O 40			

O 20	
O 31	(Correcto)
O 40	
O 30	

What will be the output of the following code snippet? What will be the output of the following code snippet?

```
class A:
    def __new__(self):
        self.__init__(self)
        print("A's __new__() invoked")

def __init__(self):
        print("A's __init__() invoked")

class B(A):
    def __new__(self):
        print("B's __new__() invoked")

def __init__(self):
        print("B's __init__() invoked")

def main():
    b = B()
    a = A()

main()
```

- B's __new__() invoked A's __init__() invoked
- B's __new__() invoked A's __new__() invoked
- B's __new__() invoked A's __init__() invoked A's __new__() invoked
- A's __init__() invoked A's __new__() invoked

B'snew() invoked A'sinit() invoked	
B'snew() invoked A'snew() invoked	
B'snew() invoked A'sinit() invoked A'snew() invoked	(Correcto)
A'sinit() invoked A'snew() invoked	

0	None 11
0	11 None
0	11.11
0	AttributeError: 'B' object has no attribute 'x'

O None 11	
○ 11 None	
O 1111	
AttributeError: 'B' object has no attribute 'x'	(Correcto)

x is not accessible from the object of classB.

```
class A:
def __init__(self):
    self.x = 1

def func(self):
    self.x = 10

class B(A):
def func(self):
    self.x += 1
    return self.x

def main():
    b = B()
    print(b.func())

main()
```

O 1	
O 2	
O 10	

O 1	
O 2	(Correcto)
O 10	
x is not accessible from the object of classB.	

```
class A:
def __str__(self):
    return "A"

class B(A):
def __init__(self):
    super().__init__()

class C(B):
def __init__(self):
    super().__init__()

def main():
    b = B()
    a = A()
    c = C()
    print(a, b, c)

main()
```

Оввв

- O ABC
- O СВА
- O AAA

○ ВВВ	
O ABC	
О СВА	
O AAA	(Correcto)

```
class A:
    def __init__(self, x = 2, y = 3):
        self.x = x
        self.y = y

def __str__(self):
        return "A"

def __eq__(self, num ):
        return self.x * self.y == num.x * num.y

def main():
        a = A(1, 2)
        b = A(2, 1)
        print(a == b)

main()
```

○ False

O 2

O 1

○ True	(Correcto)
○ False	
O 2	
O 1	