

ClassActivityQuiz_2

Due Jan 21 at 11:59pm	Points 10	Questions 10
Available until Jan 21 at 11:59pm	Time Limit None	Allowed Attempts 3

Instructions

This is a class activity quiz associated with the lecture 2 (on OOP).

Please submit before the deadline. No late submission is accepted.

For this activity, you are allowed three attempts, and it is not timed.

This quiz was locked Jan 21 at 11:59pm.

Attempt History

	Attempt	Time	Score
LATEST	Attempt 1	23 minutes	10 out of 10

⚠️ Answers will be shown after your last attempt

Score for this attempt: **10** out of 10

Submitted Jan 21 at 3:41pm

This attempt took 23 minutes.

Question 1

1 / 1 pts

_____ is a template, blueprint, or contract that defines objects of the same type.

- ☒ A class
- ☐ An object
- ☐ A method

- ☐ A data field

Question 2

1 / 1 pts

The keyword _____ is required to define a class.

- ☐ def
- ☐ return
- ☒ class
- ☐ none of the above

Question 3

1 / 1 pts

An object is an instance of a _____.

- ☐ program
- ☒ class
- ☐ method
- ☐ data

Question 4

1 / 1 pts

Analyze the following code:

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

    def print(self):
        print(s)

a = A("Welcome")
a.print()
```

☐

The program has an error because class A does not have a constructor.

☐

The program has an error because class A should have a print method with signature print(self, s).

☐

The program has an error because class A should have a print method with signature print(s).

☒

The program would run if you change print(s) to print(self.s).

Question 5

1 / 1 pts

What is printed by the following code?

```
def main():
    myCount = Count()
    times = 0

    for i in range(0, 100):
        increment(myCount, times)

    print("count is", myCount.count, "and times is", times)

def increment(c, times):
    c.count += 1
    times += 1

class Count:
    def __init__(self):
```

```
self.count = 0

if __name__=="__main__":
    main()
```

☐ count is 100 and times is 100

☐ count is 0 and times is 0

☐ count is 0 and times is 100

☒ count is 100 and times is 0

Question 6

1 / 1 pts

What is printed by the following code?

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

    def getY(self):
        return self.__y

foo = Foo()
print(foo.x)
```

☐ The program has an error because x is private and cannot be accessed outside of the class.

☐ The program has an error because y is private and cannot be accessed outside of the class.

☐ The program has an error because you cannot name a variable using __y.

☒ The program runs fine and prints 1.

Question 7

1 / 1 pts

What is printed by the following code?

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

    def getY(self):
        return self.__y

foo = Foo()
print(foo.__y)
```

☐

The program has an error because x is private and cannot be accessed outside of the class.

☒

The program has an error because y is private and cannot be accessed outside of the class.

☐

The program has an error because you cannot name a variable using __y.

☐

The program runs fine and prints 1.

Question 8

1 / 1 pts

Given a string `s = "Welcome"`, which of the following code is incorrect?

☐

`print(s[0])`

☐

`print(s.lower())`

☒ `s[1] = 'r'`

☐ `print(s.islower())`

Question 9

1 / 1 pts

Assume:

```
msg = "Programming is fun"
```

what is `msg[4: 6]` ?

☐ ram

☒ ra

☐ r

☐ rom

Question 10

1 / 1 pts

Which of the following is a Python list?

☒ `[1, 2, 3]`

☐ `(1, 2, 3)`

☐ `{1, 2, 3}`

