

## Programming in Python Quiz#5

Total points 10/10 ?

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## Quiz Questions

### Debugging

✓ Choose the incorrect option. The bug in a program could be an error due to <sup>\*</sup> 2/2

- ☐ unintended operation
- ☐ invalid type conversion
- ☒ Syntax error or value error
- ☐ wrong initialization



✓ The debugging command c performs <sup>\*</sup> 2/2

- ☐ Continue execution until the current function returns
- ☒ Continue execution until the breakpoint is reached
- ☐ Clears the specified breakpoint
- ☐ Sets the breakpoint at the specified line



✓ Debugging allows us to stop the execution of a program at a <sup>\*</sup> 2/2

- ☒ break point
- ☐ return point



✓ The last-line output in using the debugging command q gives \*

2/2

- ☐ Bdb.BdbQuit
- ☐ bdb.bdBQuit
- ☐ Bdb.bdbQuit
- ☒ bdb.BdbQuit



✓ Complete the code in order to get an output. \*

2/2

```
n=int(input("Enter a number:"))
tot=0
while(n>0):
    dig=n%10
    tot=tot+dig
print("The total sum of digits is:",tot)
```

- ☐ "n=n//10" to be included before the last line of the program
- ☒ "n=n//10" to be included before the last line of the program but within while loop ✓
- ☐ "n=n//10" to be included after the 4th line of the program
- ☐ "n=n//10" to be included after the 3rd line of the program

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## Programming in Python Quiz#4

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## Quiz Questions

### Debugging

✓ Choose the incorrect option. The bug in a program could be an error due to <sup>2/2</sup> \*

- ☒ Syntax error or value error
- ☐ unintended operation
- ☐ wrong initialization
- ☐ invalid type conversion
- ☐ count=+



✓ The debugging command c <sup>2/2</sup> \*

- ☒ while
- ☐ for



✓ Before which kind of loop, an initialization is required? <sup>2/2</sup> \*

- ☐ for
- ☒ while



✓ In Python, range(10) means \*

2/2

☐ 1 to 10

☐ 1 to 9

☒ 0 to 9

☐ 0 to 10



✓ Execution of the body of a while loop continues \*

2/2

☒ till the test-condition evaluates to True

☐ till the test-condition evaluates to False

☐ until the test-condition evaluates to True

☐ until the test-condition evaluates to False



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## Quiz Questions

### Debugging

✓ Choose the incorrect option. The bug in a program could be an error due to <sup>\*</sup> 2/2

- ☐ invalid type conversion
- ☒ Syntax error or value error
- ☐ unintended operation
- ☐ wrong initialization



✓ The debugging command c performs <sup>\*</sup> 2/2

- ☐ Continue execution until the current function returns
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- ☐ Clears the specified breakpoint
- ☐ Sets the breakpoint at the specified line



✓ Debugging allows us to stop the execution of a program at a <sup>\*</sup> 2/2

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- ☐ return point





✓ The last-line output in using the debugging command q gives \*

2/2

- ☐ Bdb.BdbQuit
- ☐ bdb.bdBQuit
- ☐ Bdb.bdbQuit
- ☒ bdb.BdbQuit



✓ Complete the code in order to get an output. \*

2/2

```
n=int(input("Enter a number:"))
tot=0
while(n>0):
    dig=n%10
    tot=tot+dig
print("The total sum of digits is:",tot)
```

- ☐ "n=n//10" to be included before the last line of the program
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- ☐ "n=n//10" to be included after the 4th line of the program
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## Quiz on Files and Exception

Total points 10/10 

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### Quiz Questions

Files and Exception handling



✓ Which of the following file-modes does retain the file data and append new data? \* 2/2

- ☐ w+
- ☐ r+
- ☐ a
- ☒ a+



✓ What will be the output of the following Python code? \* 2/2

```
1. f = None
2. for i in range (5):
3.     with open("data.txt", "w") as f:
4.         if i > 2:
5.             break
6. print(f.closed)
```

- ☒ True
- ☐ False
- ☐ None
- ☐ Error



✓ Is the following Python code valid? \*

2/2

```
try:
    # Do something
except:
    # Do something
else:
    # Do something
```

- ☐ no, there is no such thing as else
- ☐ no, else cannot be used with except
- ☐ no, else must come before except
- ☒ yes



✓ Which of the following statements are true? \*

2/2

- ☐ When you open a file for reading, if the file does not exist, an error occurs
- ☐ When you open a file for writing, if the file does not exist, a new file is created
- ☐ When you open a file for writing, if the file exists, the existing file is overwritten with the new file
- ☒ All of the mentioned



✓ How many except statements can a try-except block have? \*

2/2

- ☐ one
- ☐ zero
- ☐ more than one
- ☒ more than zero



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## Programming in Python #9

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## Quiz Questions

### Sets in Python

✓ Which of the following is not the correct syntax for creating a set? \* 2/2

- ☐ set((1,2,3,4))
- ☐ {1,2,3,4}
- ☒ set([[1,2],[3,4]])
- ☐ set([1,2,2,3,4])



✓ What will be the output of the following Python code? \* 2/2

```
nums = set([1,1,2,3,3,3,4,4])
print(len(nums))
```

- ☐ 7
- ☐ Error, invalid syntax for formation of set
- ☒ 4
- ☐ 8



✓ If a={5,6,7,8}, which of the following statements is false? \*

2/2

- ☐ print(len(a))
- ☐ print(min(a))
- ☐ a.remove(5)
- ☒ a[2]=45



✓ What will be the output of the following Python code? \*

2/2

```
>>> a={4,5,6}  
>>> b={2,8,6}  
>>> a+b
```

- ☐ {4,5,6,2,8}
- ☐ {4,5,6,2,8,6}
- ☒ Error as unsupported operand type for sets
- ☐ Error as the duplicate item 6 is present in both sets





✓ What will be the output of the following Python code? \*

2/2

```
>>> a={4,5,6}
>>> b={2,8,6}
>>> a-b
```

- ☐ Error as unsupported operand type for set data type
- ☐ {6}
- ☐ Error as the duplicate item 6 is present in both sets
- ☒ {4,5}



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## Programming in Python #10

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## Quiz Questions

### Dictionary

✓ Which of the following statements create a dictionary? \*

2/2

- ☐ d = {}
- ☐ d = {"ram":40, "rahim":45}
- ☐ d = {40:"ram", 45:"rahim"}
- ☒ All of the mentioned above



✓ Suppose d = {"ram":40, "rahim":45}, to delete the entry for "ram" what command do we use? \*

2/2

- ☐ d.delete("ram":40)
- ☐ d.delete("ram")
- ☒ del d["ram"]
- ☐ del d("ram":40)



✓ Which of these about a dictionary is false? \*

2/2

- ☐ The values of a dictionary can be accessed using keys
- ☒ The keys of a dictionary can be accessed using values
- ☐ Dictionaries aren't ordered
- ☐ Dictionaries are mutable



✓ What will be the output of the following Python code? \*

2/2

```
a={1:"A",2:"B",3:"C"}  
print(a.get(1,4))
```

- ☐ Invalid syntax for get method
- ☐ 1
- ☐ 4
- ☒ A



✓ What will be the output of the following Python code? \*

2/2

```
a={1:5,2:3,3:4}  
a.pop(3)  
print(a)
```

- ☐ {1: 5, 3: 4}
- ☐ Error, syntax error for pop() method
- ☐ {1: 5}
- ☒ {1: 5, 2: 3}



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## Programming in Python #11

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## Quiz Questions

Class-I

✓ 1. \_\_\_\_ is used to create an object. \*

2/2

- ☐ class
- ☒ constructor
- ☐ user-defined functions
- ☐ built-in functions



✓ 2. \_\_\_\_ represents an entity in the real world with its identity and behaviour. \*

2/2

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



✓ 3. What will be the output of the following Python code? \*

2/2

```
class Test:
    def __init__(self,a="Hello World"):
        self.a=a

    def display(self):
        print(self.a)

obj=Test()
obj.display()
```

- ☐ The program has an error because constructor can't have default arguments
- ☐ Nothing is displayed
- ☒ "Hello World" is displayed
- ☐ The program has an error display function doesn't have parameters





✓ 4. What will be the output of the following Python code? \*

2/2

```
class Test:
    def __init__(self,a):
        self.a=a

    def display(self):
        print(self.a)
obj=Test()
obj.display()
```

- ☐ Error as display function requires additional argument
- ☐ Displays 0, which is the automatic default value
- ☒ Error as one argument is required while creating the object
- ☐ Runs normally, doesn't display anything



✓ 5. What will be the output of the following Python code? \*

2/2

```
class Test:
    def __init__(self):
        self.variable = 'Old'
        self.Change(self.variable)
    def Change(self, var):
        var = 'New'
obj = Test()
print(obj.variable)
```

- ☐ Nothing is printed
- ☒ 'Old' is printed
- ☐ 'New' is printed
- ☐ Error because function change can't be called in the \_\_init\_\_ function



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## Programming in Python #12

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## Quiz Questions

Class-I

✓ 1. The \_\_\_\_\_ parameter is a reference to the current instance of the class, and is used to access variables that belong to the class. \* 2/2

- ☐ \_\_init\_\_()
- ☒ self ✓
- ☐ both A and B
- ☐ None of the above

✓ 2. Which of the following is correct with respect to OOP concept in Python? \* 2/2

- ☒ Objects are real world entities while classes are not real. ✓
- ☐ Classes are real world entities while objects are not real.
- ☐ Both objects and classes are real world entities.
- ☐ Both object and classes are not real.



✗ 3. Which of the following is False with respect Python code? \*

0/2

```
class Student:

    def __init__(self,id,age):

        self.id=id

        self.age=age

std=Student(1,20)
```

- ☐ "std" is the reference variable for object Student(1,20)
- ☐ id and age are called the parameters.
- ☒ Every class must have a constructor.
- ☐ None of the above

✗

Correct answer

- ☒ None of the above



✓ 4. Which of the following is correct? \*

2/2

```
class A:

    def __init__(self):

        self.count=5

        self.count=count+1

a=A()

print(a.count)
```

- ☐ 6
- ☒ Error
- ☐ 0
- ☐ 5



✓ 5. In python, what is method inside class? \*

2/2

- ☐ attribute
- ☐ argument
- ☒ function
- ☐ object



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## Programming in Python #13

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## Quiz Questions

Class-II

✓ Which of the following best describes polymorphism? \* 2/2

- ☐ Ability of a class to derive members of another class as a part of its own definition
- ☐ Means of bundling instance variables and methods in order to restrict access to certain class members
- ☐ Focuses on variables and passing of variables to functions
- ☒ Allows for objects of different types and behaviour to be treated as the same general type ✓

✓ What is the biggest reason for the use of polymorphism? \* 2/2

- ☐ It allows the programmer to think at a more abstract level
- ☐ There is less program code to write
- ☒ The program will have a more elegant design and will be easier to maintain and update ✓
- ☐ Program code takes up less space



✓ What will be the output of the following Python code? \*

2/2

```
class A:
    def __str__(self):
        return '1'
class B(A):
    def __init__(self):
        super().__init__()
class C(B):
    def __init__(self):
        super().__init__()
def main():
    obj1 = B()
    obj2 = A()
    obj3 = C()
    print(obj1, obj2, obj3)
main()
```

- ☒ 1 1 1
- ☐ 1 2 3
- ☐ '1' '1' '1'
- ☐ An exception is thrown



✓ What will be the output of the following Python code? \*

2/2

```
class A:
    def __init__(self):
        self.multiply(15)
        print(self.i)

    def multiply(self, i):
        self.i = 4 * i;
class B(A):
    def __init__(self):
        super().__init__()

    def multiply(self, i):
        self.i = 2 * i;
obj = B()
```

- ☐ 15
- ☐ 60
- ☐ An exception is thrown
- ☒ 30



✓ What will be the output of the following Python code? \*

2/2

```
class A:
    def __init__(self, x, y):
        self.x = x
        self.y = y
    def __str__(self):
        return 1
    def __eq__(self, other):
        return self.x * self.y == other.x * other.y
obj1 = A(5, 2)
obj2 = A(2, 5)
print(obj1 == obj2)
```

- ☒ True
- ☐ 1
- ☐ An exception is thrown
- ☐ False



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## Programming in Python #14

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## Quiz Questions

### Encapsulation

✓ Which of these is not a fundamental features of Object Oriented Programming? \*

2/2

- ☐ Encapsulation
- ☐ Inheritance
- ☒ Instantiation
- ☐ Polymorphism



✓ What will be the output of the following Python code? \*

2/2

```
class Test:
    def __init__(self):
        self.a = 1
        self._b = 1
    def display(self):
        return self._b
obj = Test()
print(obj.a)
```

- ☐ The program has an error because there isn't any function to return self.a
- ☐ The program has an error because b is private and display(self) is returning a private member
- ☒ The program runs fine and 1 is printed
- ☐ The program has an error as you can't name a class member using \_\_b



✓ Which of the following is the most suitable definition for encapsulation? \* 2/2

- ☐ Ability of a class to derive members of another class as a part of its own definition
- ☒ Means of bundling instance variables and methods in order to restrict access to certain class members ✓
- ☐ Focuses on variables and passing of variables to functions
- ☐ Allows for implementation of elegant software that is well designed and easily modified

✓ Which of the following is false about protected class members? \* 2/2

- ☐ They begin with one underscore
- ☐ They can be accessed within a class
- ☒ They can be accessed by name mangling method ✓
- ☐ They can be accessed by subclasses



✓ What will be the output of the following Python code? \*

2/2

```
class Objects:
    def __init__(self):
        self.colour = None
        self._shape = "Circle"

    def display(self, s):
        self._shape = s
obj=Objects()
print(obj._Objects_shape)
```

- ☐ Error because the member shape is a private member
- ☐ The program runs fine because name mangling has been properly implemented
- ☐ Error because the proper syntax for name mangling hasn't been implemented
- ☒ Error because the member shape is a protected member



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## Programming in Python #15

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## Quiz Questions

Encapsulation and Inheritance

✓ Say True or False: Private members of a class cannot be accessed. \* 2/2

- ☐ True
- ☒ False



✓ What will be the output of the following Python code? \* 2/2

```
class fruits:
    def __init__(self):
        self.price = 100
        self.__bags = 5
    def display(self):
        print(self.__bags)
obj=fruits()
obj.display()
```

- ☐ The program has an error because display() is trying to print a private class member
- ☐ The program runs fine but nothing is printed
- ☒ The program runs fine and 5 is printed
- ☐ The program has an error because display() can't be accessed



✗ What type of inheritance is illustrated in the following Python code? \* 0/2

```
class A():  
    pass  
class B(A):  
    pass  
class C(B):  
    pass
```

- ☐ Multi-level inheritance
- ☐ Hierarchical inheritance
- ☒ Single-level inheritance
- ☐ Multiple inheritance

✗

Correct answer

- ☒ Multi-level inheritance

✓ What does single-level inheritance mean? \* 2/2

- ☐ A single superclass inherits from multiple subclasses
- ☐ A subclass derives from a class which in turn derives from another class
- ☐ Multiple base classes inherit a single derived class
- ☒ A single subclass derives from a single superclass

✓



✓ What will be the output of the following Python code? \*

2/2

```
class A:
    def __init__(self):
        self.__i = 1
        self.j = 5

    def display(self):
        print(self.__i, self.j)
class B(A):
    def __init__(self):
        super().__init__()
        self.__i = 2
        self.j = 7
c = B()
c.display()
```

☐ 27

☐ 15

☐ 25

☒ 17



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