

Thank you. Your test submitted.

You have cleared this assessment.

Obtained Percentage Obtained Marks

100 %

15 / 15

Best Attempt Score:100 % on 23-03-2025

**Review Your Attempt** 

```
What will be the output of the following Python code snippet?
class Sample:
    num=100
    def __init__(self, num):
         self.value=None
    def set_value(self, num):
         value=num
                                             Warning
    def get_value(self):
         self.value=num
                                             This operati
         return self.value
obj=Sample(200)
obj.set_value(10)
print(obj.get_value())
     Code will not compile due to error in set_value() method
 Code will not compile due to error in get_value() method
     100
                                                        ard
```

Vis

Tech Mindz company has a set of employees. Employees can either be permanent employees or temporary employees. Salary is calculated for all employees but calculation is different for both type of employees. In future there might be a few more categories of employees that may be added. Company wants an optimal OOP solution for this scenario. Suggestions from few employees are given below-Warning A) Jack: Create a class Employee with employeetyp calculate salary() which would have logic to calculate salary for different types of employee This operation is disabled. B) Tom: Create an Employee class and two child cla d TemporaryEmployee having method calculate salary() C) Olive: Create an abstract Employee class having Ok Choose the best statement from given options. Suggestions from Jack and Olive combined will result in an optimal solution Suggestion given by Jack is sufficient to get an optimal solution Suggestions from Tom and Olive combined will result in an optimal solution Suggestion given by Tom is sufficient to get an optimal solution

```
What will be the output of the below Python code?
class Demo:
    def __init__(self, num):
        self.__num=num
        self.value=0
    def display_total(self):
        total=self.__num+self.value
        return total
    def set_num(self, num):
        self.__num=num
obj=Demo(100)
obj.value=200
obj.set_num(obj.value)
print(obj.display_total())
     200
    400
     300
     100
```

**Visit For More** 

3-Springboard

```
Consider the Python code given below.
  class ClassAA:
      def method1(self):
           return 10
      def method2(self):
           return 20
  class ClassBB:
      def method3(self):
           return 60
      def method4(self):
           return 70
  class ClassCC((ClassAA):
      def method1(self):
           return 30
      def method4(self):
           return 40
  class ClassDD(ClassBB):
      def method1(self):
           return 50
      def method2(self):
           return 60
  obj1=ClassCC()
  obj2=ClassDD()
 Match the following print statements with corresponding output
          Print Statements
                                    Outputs
                                        A.100
  1. print(obj1.method2()-obj2.method4())
 2. print(obj1.method1()-obj2.method1())
                                         B. 80
 3. print(obj1.method4()-obj2.method3())
                                        C 90
1-C, 2-B, 3-A
() 1-C, 2-A, 3-A
```

```
Consider the Python code given below.
class Base:
     def init (self):
          self.__value=200
     def get_value(self):
          return self.__value+1
class Child(Base):
     def get num(self):
          num=100
                                               Warning
          return num
                                               This operation is disable
class GrandChild(Child):
     def __init__(self):
          self.num=200
                                                                   Ok
child=Child()
grandchild=GrandChild()
print(grandchild.get value())
What changes should be done in the above code so as to get the output as 201?
     Make the instance variable of Base class public
     Add a constructor with statement super(). init () in Child class
     Add statement super().__init__() in the constructor of GrandChild class
     Add a constructor in the Child class and initialize num to 201
```

```
Consider the below Python code.
Assume that necessary imports have been done.
class Shape(metaclass=ABCMeta):
    def __init__(self):
         print("I am in init")
    @abstractmethod
     def draw_shape(self):
         pass
                                              Warning
    @abstractmethod
     def set_color(self):
                                              This operation is disabled.
         pass
class Circle(Shape):
    def draw_shape(self):
                                                                  Ok
         print("Draw Circle")
Which of the following statement(s) is/are TRUE?
   Class Circle cannot be instantiated as it does r
   The above code will result in an error because class Shape has two abstract methods
```

Both i) and ii) are True

Neither i) nor ii) is True

Only i) is True

Only ii) is True

Consider the Python code given below. class Alpha: def one(self): return 10 def two(self): return self.one() class Beta(Alpha): def one(self): return 10 def three(self): return 10 class Gamma(Beta): def one(self): return 10 def four(self): return self.one() def three(self): return super().two() Warning def five(self): return 10 This operation is disabled. gobj=Gamma() num1=gobj.two()+gobj.three()+gobj.four() num2=gobj.three()+gobj.four()+gobj.one() num3=gobj.one()+gobj.two()+gobj.three() Which of the following statement(s) is/are TRUE? i) Value of num1, num2, num3 will be the same ii) Error in class Gamma as it cannot override method one() which has already been overriden by parent class Beta iii) Error in class Gamma as method three() is giving call to method two() using super() which is not written in parent class Beta iv) Value of num1 and num2 will be the same but num3 will be different Only iv) Both ii) and iii)

Only ii)

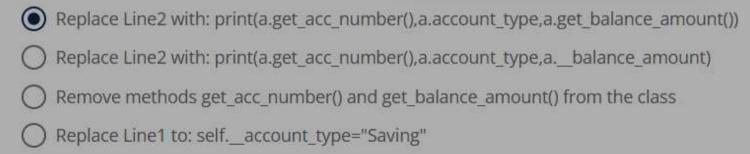
```
What will be the output of the Python code given below?
class ExceptionOne(Exception):
   pass
class Test:
   counter=1
@staticmethod
   def perform test(temp list,var1):
       try:
           if(temp list[var1]>=5):
     Test.counter+=1
    temp list[var1]-=2
      raise ExceptionOne()
     temp list[var1]=5
      raise Exception()
    except Exception:
   Test.counter-=5
     except ExceptionOne:
   Test.counter+=5
print("Data:",temp_list[var1])
try:
test=Test()
test.perform test([2,4,7,5,1],3)
finally:
print("Counter:",Test.counter)
   Data: 3
   Counter: -3
   Data: 3
   Counter: 7
  Counter: -3
  Data: 3
```

```
What will be the output of the Python code given below?
class SomeException(Exception):
pass
class Calculator:
def div(self,var1,var2):
var3=var1//var2
raise SomeException
try:
--- calculator=Calculator()
calculator.div(10,0)
                                            Warnir
except SomeException:
print("Some Exception occurred")
                                            This ope
except:
    print("Error")
finally:
print("Finally out of division met
    Some Exception occurred
    Error
    Finally out of divison method
    Finally out of divison method
    Error
    Finally out of divison method
    Some Exception occurred
    Finally out of divison method
```

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John has written the Python code given below: class Account: def init (self,acc number,balance amt): self. acc number=acc number self. balance amount=balance amt self.account type="Saving" #Line1def get acc number(self): return self. acc number def get balance amount(self): Warning return self. balance amo account=Account(123456,460000) This operation is disabled. print(account. acc number,accoun balance amount) #Line2-Ok Note: Line numbers are for reference on John wants to display the account details error due to improper variable access. Which of the following option should he d get his output?



```
Consider the Python code given below:
class Base:
    def base_method(self):
         print("Inside baseMethod")
    def common_method(self):
         print("Inside commonMethod: Base")
class Derived(Base):
    def common_method(self):
         print("Inside commonMethod: Derived")
    def derived_method(self):
         print("Inside derivedMethod")
Line# Code at module level
     base obj=Base()
     derived_obj=Derived()
      _____.common_method()
4.
      _____.base_method()
        __.common_method()
Which reference variable/s should be used at line numbers 3,4,5 so
Inside commonMethod: Derived
Inside baseMethod
Inside commonMethod: Base
Note: Line numbers are just for reference.
Choose TWO options that apply.
derived_obj,base_obj,base_obj
derived_obj,derived_obj,derived_obj
base_obj,base_obj,derived_obj
                                                        3-Springboard
derived obj,derived obj,base obj
```

**Visit For More** 

```
Consider the Python code given below.
    Note: Assume that necessary imports have been done.
    class ClassA(metaclass=ABCMeta):
        def method1(self):
             return 45
        @abstractmethod
        def method2(self):
             pass
                                                   Warning
        @abstractmethod
                                                   This operation is disa
        def method3(self):
             pass
    class ClassB(ClassA):
        def method3(self):
             return 25
    What should be done in so that object of ClassB gets created successfully?
         Implementation of method2() must be provided in ClassB
         ClassB can be instantiated without any modification to the given code
         Implementation of method1() must be provided in ClassB
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         Implementation of method3() must be removed from ClassB
```

Consider the Python code given below.

```
class Person:
    __belongs_to="Human Race"
    def __init__(self,name):
        self.__height=4.2
        self.__weight=54
        self.__name=name
    def can_speak(self,language):
        print(self.__name,"Can_speak
```

Choose the correct option with respect to the type

Warning

This operation is disabled.



- The class Person has 3 instance variables, 2
- ( ) The class Person has 3 instance variables, 1 local variable and 1 static variable
- The class Person has 2 instance variables, 3 local variables and 1 static variable
- The class Person has 4 instance variables, 2 local variables and no static variable

```
Identify the Python code to be written in lines Line 1, Line 2 and Line 3 so as to get the below output.
Emp id: 100
Emp id: 101
Emp Count 2
class Employee:
     count=100
    def __init__(self,name):
         self.name=name
         #Line 1
         #Line 2
    @staticmethod
    def totalcount():
         #Line 3
emp1=Employee("Jack")
print("Emp id:",empl.id)
emp2=Employee("Tom")
print("Emp id : ",emp2.id)
Employee.totalcount()
Note: Line numbers are for reference only.
A) Line1: Employee, count=100
 Line2: self.id=Employee. count+1
 Line3: print("Emp Count", Employee. count-100)
B) Line1: self.id=Employee, count
 Line2: Employee._count+=1
 Line3: print("Emp Count", Employee, count-100)
C) Line1: self.id=100
 Line2: Employee. count+=1
 Line3: print("Emp Count", Employee count)
D) Line1: self.id=Employee._count=1
 Line2: Employee. count+=1
 Line3: print("Emp Count", Employee, __count)
```

```
Consider the Python code given below.
      class ClassA:
           def __init__(self):
               self. var one=100
           def method_one(self):
               return self. var one
      class ClassB(ClassA):
           def __init__(self, var two):
               #Line 1
                                                           Warning
               self. var two=var two
                                                           This operation is a
           def method two(self):
               final val=self. var two + self.me
               return final val
      bobi=ClassB(50)
      print(bobj.method two())
     What changes should be done in the above code so as to go
     Note: Line numbers are for reference only
       At Line 1 add: super().__init__()
          At Line 1 add: super().__init__(var_two)
          No need to make any change in the code, it will produce 150 as output
           No need to add anything at Line1.
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           Change Line2 as: final_val=self.__var_two + super().method_one(
```