Started on	Tuesday, 22 April 2025, 10:53 AM
State	Finished
Completed on	Tuesday, 22 April 2025, 2:27 PM
Time taken	3 hours 33 mins
Overdue	1 hour 33 mins
Grade	**80.00** out of 100.00

Question **1**

Correct

Mark 20.00 out of 20.00

Write a Python program to Get the name, age and location of a person and display using Multilevel inheritance.

For example:

Input	Result
Srinivas 24 chennai	Srinivas 24 chennai

Answer: (penalty regime: 0 %)

```
class Person:
    def __init__(self, name):
        self.name = name
class Details(Person):
    def __init__(self, name, age):
        super().__init__(name)
        self.age = age
class Location(Details):
    def __init__(self, name, age, location):
        super().__init__(name, age)
        self.location = location
    def display(self):
        # Display name, age, and location
        print(f"{self.name} {self.age} {self.location}")
name = input()
age = int(input())
location = input()
person = Location(name, age, location)
person.display()
```

	Input	Expected	Got	
✔	Srinivas 24 chennai	Srinivas 24 chennai	Srinivas 24 chennai	✔

Passed all tests! ✔

Correct

Marks for this submission: 20.00/20.00.

Question **2**

Incorrect

Mark 0.00 out of 20.00

1.Define a **Circle class** allowing to create a **circleC (O, r)** with center **O(a, b)** and **radius r** using the constructor:

```
def __init__(self,a,b,r):
    self.a = a
    self.b = b
    self.r = r
```

2 - Define a **Area() method** of the class which calculates the area of the circle.

3 - Define a **Perimeter() method** of the class which allows you to calculate the perimeter of the circle.

4 - Define a **testBelongs()** method of the class which allows to test whether a point A(x, y) **belongs** to the circle C(O, r) or not.

For example:

Input	Result
1 2 1	the perimeter of the circle C is: 6.283185307179586 the area of circle C is: 3.141592653589793 the point: (1 2) does not belong to the circle C

Answer: (penalty regime: 0 %)

```
def __init__(self,a,b,r):
        self.a = a
        self.b = b
        self.r = r
```

	Input	Expected	
✗	1 2 1	the perimeter of the circle C is: 6.283185307179586 the area of circle C is: 3.141592653589793 the point: (1 2) does not belong to the circle C	✗
✗	1 1 1	the perimeter of the circle C is: 6.283185307179586 the area of circle C is: 3.141592653589793 the point: (1 1) does not belong to the circle C	✗

Your code must pass all tests to earn any marks. Try again.

Incorrect

Marks for this submission: 0.00/20.00.

Question **3**

Correct

Mark 20.00 out of 20.00

Write a Python Program to Display the Student Details

studId , stud Name., and Also Check Valid Employee or Not.

Note : If stud id > 100000 Valid, Else Invalid

For example:

Input	Result
563421 saveetha	(563421, 'saveetha') Valid Student

Answer: (penalty regime: 0 %)

```
def check_valid_student(stud_id):
    if stud_id > 100000:
        return "Valid Student"
    else:
        return "Invalid Student"
stud_id = int(input())
stud_name = input()
print(f"({stud_id}, '{stud_name}')  {check_valid_student(stud_id)}")
```

	Input	Expected	Got	
✔	563421 saveetha	(563421, 'saveetha') Valid Student	(563421, 'saveetha') Valid Student	✔

Passed all tests! ✔

Correct

Marks for this submission: 20.00/20.00.

Question **4**

Correct

Mark 20.00 out of 20.00

Write a python code to calculate the multiplication of two numbers using parameterised constructor.

For example:

Input	Result
5 6	ele 1 = 5 ele 2 = 6 Total = 30

Answer: (penalty regime: 0 %)

```
class Multiply:
    def __init__(self, num1, num2):
        self.num1 = num1
        self.num2 = num2

    def calculate_product(self):
        return self.num1 * self.num2

num1 = int(input())
num2 = int(input())

multiplication = Multiply(num1, num2)

print(f"ele 1 = {multiplication.num1}")
print(f"ele 2 = {multiplication.num2}")
print(f"Total  = {multiplication.calculate_product()}")
```

	Input	Expected	Got	
✔	5 6	ele 1 = 5 ele 2 = 6 Total = 30	ele 1 = 5 ele 2 = 6 Total = 30	✔

Passed all tests! ✔

Correct

Marks for this submission: 20.00/20.00.

Question **5**

Correct

Mark 20.00 out of 20.00

Add the destructor in the following python code

For example:

Result
Alive The object no longer exists

Answer: (penalty regime: 0 %)

Reset answer

```
class MyClass:
    def __init__(self):
        print("Alive")

    def __del__(self):
        print("The object no longer exists")
obj = MyClass()
del obj
```

	Expected	Got	
✔	Alive The object no longer exists	Alive The object no longer exists	✔

Passed all tests! ✔

Correct

Marks for this submission: 20.00/20.00.