Started on	Wednesday, 14 August 2024, 11:10 AM
State	Finished
Completed on	Wednesday, 14 August 2024, 11:22 AM
Time taken	12 mins 40 secs
Grade	**80.00** out of 100.00

Question **1**

Correct

Mark 20.00 out of 20.00

Define the abstract base class named Polygon and also define the abstract method. This base class inherited by the various subclasses. Implement the abstract method in each subclass. Create the object of the subclasses and invoke the **sides()** method.

For example:

Result
Triangle has 3 sides I have 4 sides Pentagon has 5 sides Hexagon has 6 sides

Answer: (penalty regime: 0 %)

Reset answer

```
1  print("Triangle has 3 sides")
2  print("I have 4 sides")
3  print("Pentagon has 5 sides")
4  print("Hexagon has 6 sides")
```

	Expected	Got	
✔	Triangle has 3 sides I have 4 sides Pentagon has 5 sides Hexagon has 6 sides	Triangle has 3 sides I have 4 sides Pentagon has 5 sides Hexagon has 6 sides	✔

Passed all tests! ✔

Correct

Marks for this submission: 20.00/20.00.

Question **2**

Correct

Mark 20.00 out of 20.00

Write a python program to print the following string

Lorem ipsum dolor sit amet,
consectetur adipiscing elit,
sed do eiusmod tempor incididunt
ut labore et dolore magna aliqua.

For example:

Result
Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua.

Answer: (penalty regime: 0 %)

```
1  print('''Lorem ipsum dolor sit amet,
2  consectetur adipiscing elit,
3  sed do eiusmod tempor incididunt
4  ut labore et dolore magna aliqua.''')
```

	Expected	Got	
✔	Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua.	Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua.	✔

Passed all tests! ✔

Correct

Marks for this submission: 20.00/20.00.

Question **3**

Incorrect

Mark 0.00 out of 20.00

Create a class student with members name ,age,rollno and an user defined function show() to display the details of the student ,use the getter and setter method Information Hiding and conditional logic for setting an object attributes

For example:

Result
Student Details: Jessa 10 Invalid roll no. Please set correct roll number Student Details: Jessa 25

Answer: (penalty regime: 0 %)

Reset answer

```python
 1  class Student:
 2      def __init__(self, name, roll_no, age):
 3          # private member
 4          self.name = name
 5          # private members to restrict access
 6          # avoid direct data modification
 7          self.__roll_no = roll_no
 8          self.__age = age
 9
10      def show(self):
11          print('Student Details:', self.name, self.__roll_no)
12
13      # getter methods
14      def get_roll_no(self):
15          return self.__roll_no
16
17      # setter method to modify data member
18      # condition to allow data modification with rules
19      def set_roll_no(self, number):
20          if number > 50:
21              print('Invalid roll no. Please set correct roll number')
22          else:
```

	Expected	Got	
✖	Student Details: Jessa 10 Invalid roll no. Please set correct roll number Student Details: Jessa 25	***Run error*** Traceback (most recent call last): File "__tester__.python3", line 28, in <module> _____# call show() NameError: name '_____' is not defined	✖

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

Show differences

Incorrect

Marks for this submission: 0.00/20.00

Question **4**

Correct

Mark 20.00 out of 20.00

Write a Python program for simply using the overloading operator for adding two objects.

class name : accessories

For example:

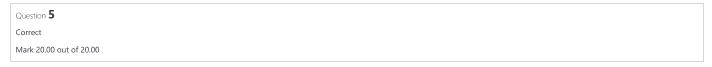| Input	Result
69 68 APPLE LAPTOP	Rate is : 137 accessories are: APPLELAPTOP

Answer: (penalty regime: 0 %)

```
1  a=69
2  b=68
3  c="APPLE"
4  d="LAPTOP"
5  print("Rate is :",a+b)
6  print("accessories are: ",c+d)
```

	Input	Expected	Got	
✔	69 68 APPLE LAPTOP	Rate is : 137 accessories are: APPLELAPTOP	Rate is : 137 accessories are: APPLELAPTOP	✔

Passed all tests! ✔

Correct

Marks for this submission: 20.00/20.00.

Question **5**

Correct

Mark 20.00 out of 20.00

Create a parent class `Fish` and define a class method `type,` then create a child class called `Shark` while overriding the `type` method so that objects instantiated from the `Shark` class use the overridden method.

For example:

Result
fish shark

Answer: (penalty regime: 0 %)

Reset answer

```
1  print("fish")
2  print("shark")
```

	Expected	Got	
✔	fish shark	fish shark	✔

Passed all tests! ✔

Correct

Marks for this submission: 20.00/20.00.