Started on	Wednesday, 16 April 2025, 9:24 AM
State	Finished
Completed on	Friday, 2 May 2025, 10:13 PM
Time taken	16 days 12 hours
Overdue	16 days 10 hours
Grade	**100.00** out of 100.00

Question **1**

Correct

Mark 20.00 out of 20.00

Write a python program to print the type of user based on the user choice using elif .

1.Admin

2.Editor

3.Guest

4.Wrong Entry

For example:

Input	Result
1	Admin

Answer: (penalty regime: 0 %)

```
choice=int(input())
if choice == 1:
    print("Admin")
elif choice == 2:
    print("Editor")
elif choice == 3:
    print("Guest")
else:
    print("Wrong entry")
```

	Input	Expected	Got	
✓	1	Admin	Admin	✓
✓	3	Guest	Guest	✓
✓	4	Wrong entry	Wrong entry	✓

Passed all tests! ✓

Correct

Marks for this submission: 20.00/20.00.

Question **2**

Correct

Mark 20.00 out of 20.00

Create a class pub_mod with two variables name and age of a person define a method to display the age value,create an object for the class to invoke age method.

For example:

Result
Name: Jason Age: 35

Answer: (penalty regime: 0 %)

Reset answer

```python
class pub_mod:
    def __init__(self, name, age):
        self.name = name
        self.age = age

    def display_age(self):
        print("Name: ", self.name)
        print("Age: ", self.age)
person = pub_mod("Jason", 35)
person.display_age()# Get user input

```

	Expected	Got	
✓	Name: Jason Age: 35	Name: Jason Age: 35	✓

Passed all tests! ✓

Correct

Marks for this submission: 20.00/20.00.

Question **3**

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

```
class Fish:
    def type(self):
        print("fish")
class Shark(Fish):
    def type(self):
        print("shark")
fish_obj = Fish()
shark_obj = Shark()

fish_obj.type()
shark_obj.type()
```

	Expected	Got	
✓	fish shark	fish shark	✓

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 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 %)

```
class accessories:
    def __init__(self, rate, name):
        self.rate = rate
        self.name = name
    def __add__(self, other):
        total_rate = self.rate + other.rate
        combined_name = self.name + other.name
        return accessories(total_rate, combined_name)
    def display(self):
        print("Rate is :", self.rate)
        print("accessories are: ", self.name)
rate1 = int(input())
rate2 = int(input())
name1 = input()
name2 = input()
a1 = accessories(rate1, name1)
a2 = accessories(rate2, name2)
result = a1 + a2
result.display()

```

	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

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

```python
from abc import ABC, abstractmethod
class Polygon(ABC):
    @abstractmethod
    def sides(self):
        pass
class Triangle(Polygon):
    def sides(self):
        print("Triangle has 3 sides")
class Quadrilateral(Polygon):
    def sides(self):
        print("I have 4 sides")
class Pentagon(Polygon):
    def sides(self):
        print("Pentagon has 5 sides")
class Hexagon(Polygon):
    def sides(self):
        print("Hexagon has 6 sides")
triangle = Triangle()
quadrilateral = Quadrilateral()
pentagon = Pentagon()
hexagon = Hexagon()

```

	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.