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Lab:02

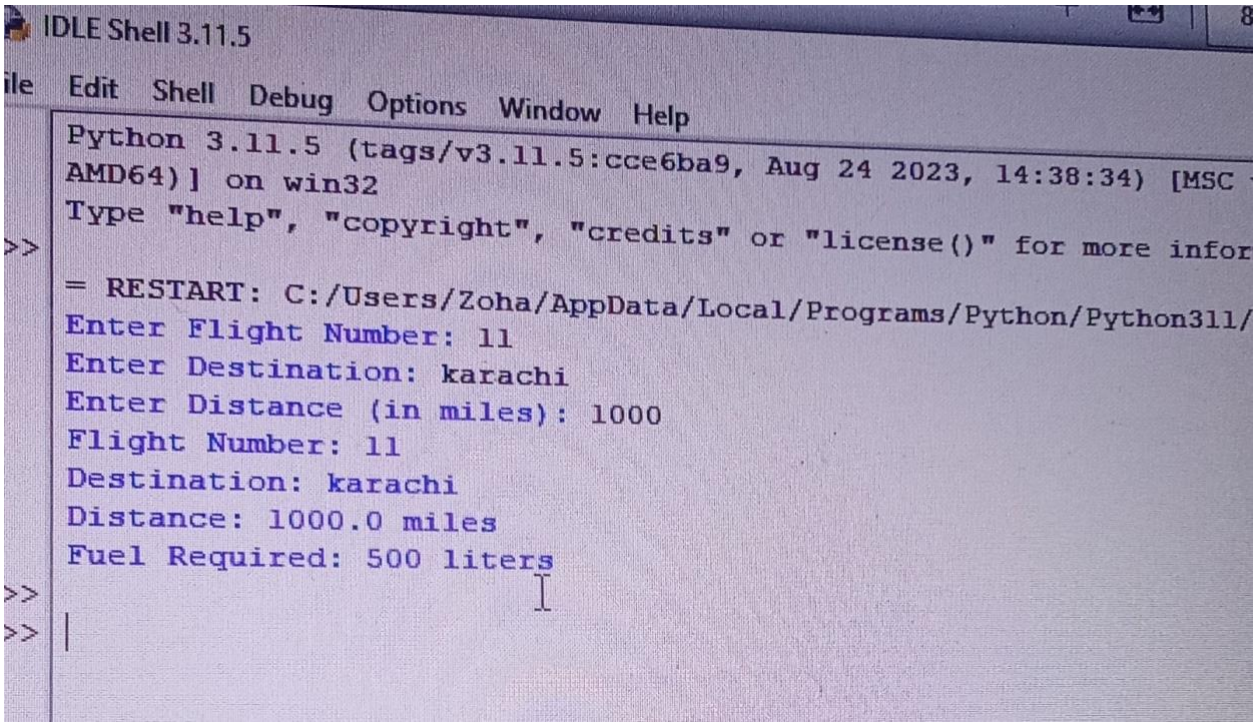
Task:1

CODE:

```
class Flight:
    def __init__(self):
        self.__flight_number = 0  # Private member for Flight number
        self.__destination = ""  # Private member for Destination
        self.__distance = 0.0  # Private member for Distance
        self.__fuel = 0.0  # Private member for Fuel

    def CALFUEL(self):
        if self.__distance <= 1000:
            self.__fuel = 500
        elif 1000 < self.__distance <= 2000:
            self.__fuel = 1100
        else:
            self.__fuel = 2200

    def FEEDINFO(self):
        self.__flight_number = int(input("Enter Flight Number: "))
        self.__destination = input("Enter Destination: ")
        self.__distance = float(input("Enter Distance: "))
        self.CALFUEL()  # Calculate fuel based on distance

    def SHOWINFO(self):
        print("Flight Number:", self.__flight_number)
        print("Destination:", self.__destination)
```

```
        print("Distance:", self.__distance)
        print("Fuel:", self.__fuel)

# Main function for testing
def main():
    obj = Flight()  # Create an instance of the Flight class
    obj.FEEDINFO()  # Input flight information and calculate fuel
    obj.SHOWINFO()  # Display flight information

if __name__ == "__main__":
    main()  # Call the main function to test the class
```

RESULT:



TASk:2

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```
class Batsman:
    def __init__(self):
        self.__bcode = 0
        self.__bname = ""
        self.__innings = 0
        self.__notout = 0
        self.__runs = 0
        self.__batavg = 0.0

    def calcavg(self):
        if self.__innings - self.__notout != 0:
            self.__batavg = self.__runs / (self.__innings - self.__notout)
        else:
            self.__batavg = 0.0

    def readdata(self):
        self.__bcode = int(input("Enter Batsman Code (4 digits): "))
        self.__bname = input("Enter Batsman Name (up to 20 characters): ")
        self.__innings = int(input("Enter Innings: "))
        self.__notout = int(input("Enter Not Out: "))
        self.__runs = int(input("Enter Runs: "))
        self.calcavg()

    def __repr__(self):
        return f"Batsman Code: {self.__bcode}\nBatsman Name: {self.__bname}\nInn

def main():
    obj = Batsman()
    obj.readdata()
    print(obj)

if __name__ == "__main__":
    main()
```

Result :

```
============================================================
Enter Batsman Code (4 digits): 5688
Enter Batsman Name (up to 20 characters): Ali
Enter Innings: 3
Enter Not Out: 2
Enter Runs: 156
Batsman Code: 5688
Batsman Name: Ali
Innings: 3
Not Out: 2
Runs: 156
Batting Average: 156.00
```