## DSA Lab-2 Hasan Amin 374866

## OOP:

```
class Flights:

def __init__(self):
    self._flightNo=0
    self._destination="
    self._fuel=0.0
    self._distance=0.0

def calfuel(self):
    if self._distance<=1000:
        self._fuel=200
    elif self._distance>1000 and self._distance<=2000:
        self._fuel=1000
    else:
        self._fuel=1000
    else:
        self._fuel=101ightNo
    self._fightNo=fightNo
    self._destination=destination
    self._distance=distance
self._fuel=0.0

def calfuel(self):
    if self._distance=10e
    self._fuel=50e
    elif self._distance=10e
    self._fuel=10e
    else:
    self._fuel=20e
    def feedinfo(self,flightke)
    self._fuel=21e
    def feedinfo(self,flightke)
    self._distantion-dest
    self._distantion-dest
    self._distantion-dest
    self._distantion-dest
    def show.info(self):
        print("Flight Number;"
    print("Flight Number;"
    print("Flight Number;"
    print("Flight Number;"
    print("Flight Number;"
    print("Bustance:", sel
    print("Flight Number;"
    print("Bustance:", sel
    print("Bustance:", sel
    print("Bustance:", sel
    print("Bustance:", sel
    print("Bustance:", sel
    self._baname:"
    def _init_(self):
    self._notout=0
    self._notout=
                                                                   def show_info(self):
    print("Flight Number:", self._flightNo)
    print("Destination:", self._destination)
    print("Distance:", self._distance, "miles")
    print("Fuel Required:", self._fuel, "gallons")
                                                                                        try:
self._batavg =self._runs/(self._innings-self._notout)
except ZeroDivisionError:
                                                            pass

for readdata(self,bcode:int,bname:str,innings:int,notout:int,runs:int):
    self_bcode=bcode
    self_bname=bname
    self_bname=bname
    self_lnings=innings
    self_notout=notout
    self_notout=notout
    self_notout=notout
    self_calcavg()

def _repr_(self):
    return f'Code:(self_bcode) \n Name:(self_bname) \n Innings: {self_innings} \n Notouts: {self_notout} \n Runs: {self_runs} \n stored at {hex(id(self))}'
                                                                 def greet(self):
    self.last_call=self.greet
    return self.say("Hello, my name is " + self.name)
                                                                 def repeat(self):
    if self.last_call is not None:
        if self.last_stuff is not None:
            return self.last_call(self.last_stuff)
                              def main():
    obj=Flights()
    obj.feadinfo(20,"Karachi",2000)
    obj.calfuel()
    obj.show_info()
    print("-----")
    obj2-Restsman()
    obj2.readdata(2000,"John",10,5,500)
    print(obj2)
    print("-----")
    obj3-Person("Hasan")
    print(obj3.sperson("Hasan"))
    print(obj3.sy("Hello Hasan!"))
    print(obj3.repeat())
    print(obj3.repeat())
    print(obj3.repeat())
    print(obj3.repeat())
    print(obj3.repeat())
    print(obj3.repeat())
    print(obj3.repeat())
```

```
Flight Number: 20
Destination: Karachi
Distance: 2000 miles
Fuel Required: 1100 gallons
Code: 2000
 Name: John
 Innings: 10
 Notouts: 5
 Runs: 500
 stored at 0x24d0a185c50
Hello Hasan!
Hello Hasan!
Hello, my name is Hasan
Hello, my name is Hasan
Would you please move aside
Would you please move aside
```

## 2-D Lists:

PS C:\Users\Hasan\Desktop\University Resources\DSA\La /University Resources/DSA/Labs/week-2/2d-lists.py" The row with the highest sum is at index:1