```
Jop ython.py X
```

```
Users > islam > Documents > 💠 oop-python.py > ...
           det __init__(self, name, age=0):
               self.name = name
               self.age = age
           def describe(self):
  8
               print(f"my name is {self.name} and my age is {self.age}")
 10
 11
           @classmethod
 12
           def initFromBirthYear(cls, name, birthYear):
 13
               return cls(name, date.today().year - birthYear)
 14
       student1 = Student("islam", 20)

 15
       student2 = Student.initFromBirthYear("ahmed", 1993)
 16
       student2.describe()
 17
 18
       student1.describe()
                                                                                   1: Python
PROBLEMS
           OUTPUT
                    DEBUG CONSOLE
                                     TERMINAL
islam@islams-MacBook-Pro ~ % /Library/Frameworks/Python.framework/Versions/3.9/bin/python3 /Users/islam/Documents/oop-python.py
my name is ahmed and my age is 27
islam@islams-MacBook-Pro ~ % /Library/Frameworks/Python.framework/Versions/3.9/bin/python3 /Users/islam/Documents/oop-pyth
```

land:51:47/2:41:25 practical python object-oriented programming >

```
op ython.py
```

```
Users > islam > Documents > ♥ oop-python.py > ❤ Man > ♡ __init__
       class Person:
           def __init__(self, name, age):
               self.name = name
               self.age = age
           def display(self):
  6
               return f"name is {self.name} and age is {self.age}"
       class Man(Person):
  9
           gender = 'Male'
 10
 11
           no\_of\_men = 0
 12
           def __init__(self,name, age, voice):
 13
               super().__init__(name, age)
 14
               self.voice = voice
 15
 16
               Man.no_of_men += 1
```

PROBLEMS OUTPUT DEBUG CONSOLE **TERMINAL**

islam@islams-MacBook-Pro ~ % ∏

1: Python







```
Man.no of men += 1
    def display(self):
         string = super().display()
         return string + f" and voice is {self.voice} and gender is {self.gender}"
MS
                                                                            1: Python
     OUTPUT
              DEBUG CONSOLE
                              TERMINAL
gislams-MacBook-Pro ~ % 🗍
```

```
> islam > Documents > 🏓 oop-python.py > 😭 Man > 😭 display
         self.age = age
     def display(self):
         return f"name is {self.name} and age is {self.age}"
 class Man(Person):
     gender = 'Male'
     no of mon - A
```

```
Job ython.py
                                                     Pytiloii Object O - سرح تبرمجه کتیه اسوجه کی بایتون
sers > islam > Documents > 🥏 oop-python.py > 😭 Man > 😭 __add__
     class Man():
         def __init__(self, name, age):
             self.name = name
             self.age = age
         def __add__(self, other):
             names = self.name + " and " + other.name
             ages = self.age + other.age
9
             return f"names combined are {names} and sum of ages is {ages}"
10
11
         # def __lt__(self, other):
12
               return self.age < other.age
```

```
op ython.py ×
```

20

#print(man<man2)</pre>

```
op ython.py ×
```

```
Jsers > islam > Documents > 🥏 oop-python.py > 😭 Man
              names = self.name + " and " + other.name
              ages = self.age + other.age
              return f"names combined are {names} and sum of ages is {ages}"
10
11
          def __lt__(self, other):
12
              return self.age < other.age
13
14
          def display(self):
15
             return f"name is {self.name} and age is {self.age}"
16
17
      man = Man("islam", 20)
18
      man2 = Man("ahmed", 30)
19
      # print(man+man2)
      print(man<man2)</pre>
20
```



```
🚍 [Python Special/Dunder Methods] - [ الدوال الخاصة في بايثون - [ تعلَّم بايثون بالعربي
                           dunder_functions.py
                       Users > islam > Documents > dunder_functions.py > documents > descriptions.py > desc
                                 35
                                                                          def __len__(self):
                                                                                              return len(self.cart)
                                 36
مړ
                                 37
                                                                          def __call__(self):
                                 38
                                                                                              print(f"{self.customer}")
                                 39
                                 40
留
                                                                         def _str_{\underline{r}}(self):
                                 41
                                                                                              return f"{self.customer} bought {self.cart}"
                                 42
                                 43
                                 44
                                 45
                                                      order = Order(["lapttop", "monitor", "mouse", "sdsd"], "islam hesham")
                                                      print(order)
                                 46
                         PROBLEMS
                                                                                        DEBUG CONSOLE
                                                           OUTPUT
                                                                                                                                           TERMINAL
                                                                                                                                                                                                                                                                                                                                                                                1: Python
                         islam@islams-MacBook-Pro ~ % /Library/Frameworks/Python.framework/Versions/3.9/bin/python3 /Users/islam/Documents/dunder_functions.py
                         islam hesham bought ['lapttop', 'monitor', 'mouse', 'sdsd']
                         islam@islams-MacBook-Pro ~ % ∏
```