

Python feature	Purpose	Line number
class	Using methods and attributes by creating objects	1 - 121
Initialization * __init__ *	Initializ arguments to private\public attributes.	2
Public artibuttes	Accesable all placces *note: by default it'll be public	5
Private artibutes	Only accesable within the class	6
A method	Called function on other languge, used to perform taskes when it's called	29
An if statment	Used to compare two things, is it greater smaller..etc if it's right it'll do tasks if not will be skipped. *can be nasted if else, elif	41
Uncapitlaze a string	STRING.lower() #ABDULLAH to abdullah *built in pyhton no need to make it	41
and	.Used if two thing or more are the same or not	111
Printing on screen	By just wriing print("whateverYouWant") #spreating artibtues by a coma like line 184 "d",x,""abc	148
Len(string)	Built in function to count how many letters in the string	189
object	You can make as much as you want of object and every one has it's own information	198
Constructors	ClassName(a,b,c) Passing for Initializtion	198
Taking input	input("optinal printing") taking input from the user :Synatx	198
New line and space	\t is space \n is new line	313

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1 class read:
2     def __init__(self, name, number, email, # initialize the attributes
3         catg1, book1, pages1, catg2, book2, pages2,
4         catg3, book3, pages3, catg4, book4, pages4, catg5, book5, pages5):
5         self.name = name
6         self.__number = number # private attribute
7         self.__email = email # private attribute
8
9         self.catg1 = catg1
10        self.book1 = book1
11        self.pages1 = pages1
12
13        self.catg2 = catg2
14        self.book2 = book2
15        self.pages2 = pages2
16
17        self.catg3 = catg3
18        self.book3 = book3
19        self.pages3 = pages3
20
21        self.catg4 = catg4
22        self.book4 = book4
23        self.pages4 = pages4
24
25        self.catg5 = catg5
26        self.book5 = book5
27        self.pages5 = pages5
28
29    def getNumber(self):
30        return self.__number
31
32    def getEmail(self):
33        return self.__email
34
35    def booksPages(self): # getting all pages of all books an object read
36        return self.pages1 + self.pages2 +self.pages3 +self.pages4 +self.pages5
37
38
39    def countHistory(self):
40        counter = 0
41        if(self.catg1.lower() == 'history'):
42            counter += 1
43        if(self.catg2.lower() == 'history'):
44            counter += 1
45        if(self.catg3.lower() == 'history'):
46            counter += 1
47        if(self.catg4.lower() == 'history'):
48            counter += 1
49        if(self.catg5.lower() == 'history'):
50            counter += 1
51        return counter
52
53    def countStory(self):
54        counter = 0
55        if(self.catg1.lower() == 'story'):
56            counter += 1
57        if(self.catg2.lower() == 'story'):
58            counter += 1
59        if(self.catg3.lower() == 'story'):
60            counter += 1
61        if(self.catg4.lower() == 'story'):
62            counter += 1
63        if(self.catg5.lower() == 'story'):
64            counter += 1
65        return counter
66
67    def countScientist(self):
68        counter = 0
69        if(self.catg1.lower() == 'scientist'):
70            counter += 1
71        if(self.catg2.lower() == 'scientist'):
72            counter += 1
73        if(self.catg3.lower() == 'scientist'):
74            counter += 1
75        if(self.catg4.lower() == 'scientist'):
76            counter += 1
77        if(self.catg5.lower() == 'scientist'):
78            counter += 1
79        return counter
80

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81 def countReligious(self):
82     counter = 0
83     if(self.catg1.lower() == 'religious'):
84         counter += 1
85     if(self.catg2.lower() == 'religious'):
86         counter += 1
87     if(self.catg3.lower() == 'religious'):
88         counter += 1
89     if(self.catg4.lower() == 'religious'):
90         counter += 1
91     if(self.catg5.lower() == 'religious'):
92         counter += 1
93     return counter
94
95 def countLiterature(self):
96     counter = 0
97     if(self.catg1.lower() == 'literature'):
98         counter += 1
99     if(self.catg2.lower() == 'literature'):
100         counter += 1
101     if(self.catg3.lower() == 'literature'):
102         counter += 1
103     if(self.catg4.lower() == 'literature'):
104         counter += 1
105     if(self.catg5.lower() == 'literature'):
106         counter += 1
107     return counter
108
109 def countOthers(self):
110     counter = 0
111     if(self.catg1.lower() != 'literature' and self.catg1.lower() != 'religious' and self.catg1.lower() != 'history' and self.catg1.lower() != 'story' and self.catg1.lower() != 'scientist'):
112         counter += 1
113     if(self.catg2.lower() != 'literature' and self.catg2.lower() != 'religious' and self.catg2.lower() != 'history' and self.catg2.lower() != 'story' and self.catg2.lower() != 'scientist'):
114         counter += 1
115     if(self.catg3.lower() != 'literature' and self.catg3.lower() != 'religious' and self.catg3.lower() != 'history' and self.catg3.lower() != 'story' and self.catg3.lower() != 'scientist'):
116         counter += 1
117     if(self.catg4.lower() != 'literature' and self.catg4.lower() != 'religious' and self.catg4.lower() != 'history' and self.catg4.lower() != 'story' and self.catg4.lower() != 'scientist'):
118         counter += 1
119     if(self.catg5.lower() != 'literature' and self.catg5.lower() != 'religious' and self.catg5.lower() != 'history' and self.catg5.lower() != 'story' and self.catg5.lower() != 'scientist'):
120         counter += 1
121     return counter
122

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123
124
125     def add_all(i1,i2,i3,i4,i5,i6,i7,i8,i9,i10): # can be used to add all everyone's pages also count
126         return i1 + i2 + i3 + i4 + i5 + i6 + i7 + i8 + i9 + i10
127
128
129     def printMostCatg(history, story, scientist, religious, literature, other):
130         biggest = history
131         BIGGEST = 'history'
132
133         if biggest < story:
134             biggest = story
135             BIGGEST = 'story'
136
137         if biggest < scientist:
138             biggest = scientist
139             BIGGEST = 'scientist'
140
141         if biggest < religious:
142             biggest = religious
143             BIGGEST = 'religious'
144
145         if biggest < literature:
146             biggest = literature
147             BIGGEST = 'literature'
148
149         if biggest < other:
150             biggest = other
151             BIGGEST = 'other'
152
153         print("The most category was read is",BIGGEST,"by" , biggest,"books")
154
155
156     def printMostPages(name1, pages1, name2, pages2, name3, pages3, name4, pages4, name5, pages5,
157         name6, pages6, name7, pages7, name8, pages8, name9, pages9, name10, pages10):
158         biggest = pages1
159         BIGGEST = name1
160
161         if biggest < pages2:
162             biggest = pages2
163             BIGGEST = name2
164
165         if biggest < pages3:
166             biggest = pages3
167             BIGGEST = name3
168
169         if biggest < pages4:
170             biggest = pages4
171             BIGGEST = name4
172
173         if biggest < pages5:
174             biggest = pages5
175             BIGGEST = name5
176
177         if biggest < pages6:
178             biggest = pages6
179             BIGGEST = name6
180
181         if biggest < pages7:
182             biggest = pages7
183             BIGGEST = name7
184
185         if biggest < pages8:
186             biggest = pages8
187             BIGGEST = name8
188
189         if biggest < pages9:
190             biggest = pages9
191             BIGGEST = name9
192
193         if biggest < pages10:
194             biggest = pages10
195             BIGGEST = name10
196
197         print("The one who read pages the most is",BIGGEST,"by", biggest,"pages")
198
199
200     def printSQ(string, num): # printing a schedule
201
202         if len(string) < 7:          # counting how many letters to manage blanks ( \t )
203             print(string,"\t\t", num)
204         else:
205             print(string,"\t", num)
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```
# this is just for easily test the program
```

```
obj1 = read('Abdullah',96653, 'Abdullah@com', 'story', 'bdm', 200, 'literature', 'ssc', 250, 'literature', 'ccs', 300, 'story' , 'ahof', 100, 'story', 'ff', 300)
```

```
obj2 = read('Abdullrahman',96655, 'Abdullrahman@com', 'story', 'bdm', 100, 'story', 'ssc', 100, 'history', 'ccs', 300, 'literature' , 'ahof', 100, 'story', 'ff', 300)
```

```
obj3 = read('Abdullaziz',96664, 'Abdullaziz@com', 'story', 'bdm', 200, 'literature', 'ssc', 250, 'history', 'ccs', 300, 'literature' , 'ahof', 100, 'literature', 'ff', 300)
```

```
obj4 = read('Omar',96652, 'Omar@com', 'literature', 'bdm', 200, 'literature', 'ssc', 250, 'literature', 'ccs', 300, 'story' , 'ahof', 100, 'story', 'ff', 300)
```

```
obj5 = read('Khalid',96651, 'Khalid@com', 'religious', 'bdm', 200, 'religious', 'ssc', 250, 'religious', 'ccs', 300, 'literature' , 'ahof', 100, 'history', 'ff', 300)
```

```
obj6 = read('Saleh',96612, 'Saleh@com', 'scientist', 'bdm', 200, 'scientist', 'ssc', 250, 'literature', 'ccs', 300, 'literature' , 'ahof', 100, 'story', 'ff', 300)
```

```
obj7 = read('Mohammed',96622, 'Mohammed@com', 'history', 'bdm', 200, 'scientist', 'ssc', 250, 'literature', 'ccs', 300, 'scientist' , 'ahof', 100, 'story', 'ff', 300)
```

```
obj8 = read('Bandar',96612, 'Bader@com', 'literature', 'bdm', 200, 'scientist', 'ssc', 250, 'scientist', 'ccs', 300, 'history' , 'ahof', 100, 'story', 'ff', 300)
```

```
obj9 = read('Abdulelah',96629, 'Abdulelah@com', 'history', 'bdm', 200, 'literature', 'ssc', 250, 'history', 'ccs', 300, 'history' , 'ahof', 100, 'story', 'ff', 300)
```

```
obj10 = read('Eyad',96699, 'eyad@com', 'Literature', 'bdm', 500, 'literature', 'ssc', 250, 'history', 'ccs', 300, 'cv' , 'ahof', 100, 'cv', 'ff', 300)
```

```

263 # initialize and counting all history/story etc... was written. *it'll used in last two printing*
264 countAllhistory = add_all(obj1.countHistory(), obj2.countHistory(), obj3.countHistory(), obj4.countHistory(), obj5.countHistory(),
265                          obj6.countHistory(), obj7.countHistory(), obj8.countHistory(), obj9.countHistory(), obj10.countHistory())
266
267 countAllstory = add_all(obj1.countStory(), obj2.countStory(), obj3.countStory(), obj4.countStory(), obj5.countStory(),
268                        obj6.countStory(), obj7.countStory(), obj8.countStory(), obj9.countStory(), obj10.countStory())
269
270 countAllscientist = add_all(obj1.countScientist(), obj2.countScientist(), obj3.countScientist(), obj4.countScientist(), obj5.countScientist(),
271                            obj6.countScientist(), obj7.countScientist(), obj8.countScientist(), obj9.countScientist(), obj10.countScientist())
272
273 countAllreligious = add_all(obj1.countReligious(), obj2.countReligious(), obj3.countReligious(), obj4.countReligious(), obj5.countReligious(),
274                             obj6.countReligious(), obj7.countReligious(), obj8.countReligious(), obj9.countReligious(), obj10.countReligious())
275
276 countAllliterature = add_all(obj1.countLiterature(), obj2.countLiterature(), obj3.countLiterature(), obj4.countLiterature(), obj5.countLiterature(),
277                              obj6.countLiterature(), obj7.countLiterature(), obj8.countLiterature(), obj9.countLiterature(), obj10.countLiterature())
278
279 countAllother = add_all(obj1.countOthers(), obj2.countOthers(), obj3.countOthers(), obj4.countOthers(), obj5.countOthers(),
280                         obj6.countOthers(), obj7.countOthers(), obj8.countOthers(), obj9.countOthers(), obj10.countOthers())
281
282
283 # ALL THE FOLLOWING ARE PRINTING STATEMENTS
284
285 print("NAME","\t\t","ALL PAGES")
286 printSQ(obj1.name,obj1.booksPages())
287 printSQ(obj2.name,obj2.booksPages())
288 printSQ(obj3.name,obj3.booksPages())
289 printSQ(obj4.name,obj4.booksPages())
290 printSQ(obj5.name,obj5.booksPages()) # passing
291 printSQ(obj6.name,obj6.booksPages()) # name page
292 printSQ(obj7.name,obj7.booksPages())
293 printSQ(obj8.name,obj8.booksPages())
294 printSQ(obj9.name,obj9.booksPages())
295 printSQ(obj10.name,obj10.booksPages())
296
297
298
299 print("\n\nAll the group members have read ",add_all(obj1.booksPages(), obj2.booksPages(), obj3.booksPages(),
300                                                     obj4.booksPages(), obj5.booksPages(), obj6.booksPages(),
301                                                     obj7.booksPages(), obj8.booksPages(), obj9.booksPages(),
302                                                     obj10.booksPages()), "pages by 50 books\n")
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printMostPages(obj1.name,obj1.booksPages(), obj2.name,obj2.booksPages(), obj3.name,obj3.booksPages(),
               obj4.name,obj4.booksPages(),obj5.name,obj5.booksPages(), obj6.name,obj6.booksPages(),
               obj7.name,obj7.booksPages(), obj8.name,obj8.booksPages(), obj9.name,obj9.booksPages(),
               obj10.name,obj10.booksPages())

print("\n\nCATAGORY \t BOOKS")
printSQ('history', countAllhistory)

printSQ('story', countAllstory)

printSQ('scientist',countAllscientist)

printSQ('religious',countAllreligious)

printSQ('literature',countAllliterature)

printSQ('other',countAllother)

print("\n")
printMostCatg(countAllhistory, countAllstory, countAllscientist, countAllreligious, countAllliterature, countAllother )
print("")

```



```

240 # this is just for easily test the program
241 obj1 = read('Abdullah',96653, 'Abdullah@com', 'story', 'bdm', 200, 'literature', 'ssc', 250, 'literature', 'ccs', 300, 'story', 'ahof', 100, 'story', 'ff', 300)
242
243 obj2 = read('Abdullrahman',96655, 'Abdullrahman@com', 'story', 'bdm', 100, 'story', 'ssc', 100, 'history', 'ccs', 300, 'literature', 'ahof', 100, 'story', 'ff', 300)
244
245 obj3 = read('Abdullaziz',96664, 'Abdullaziz@com', 'story', 'bdm', 200, 'literature', 'ssc', 250, 'history', 'ccs', 300, 'literature', 'ahof', 100, 'literature', 'ff', 300)
246
247 obj4 = read('Omar',96652, 'Omar@com', 'literature', 'bdm', 200, 'literature', 'ssc', 250, 'literature', 'ccs', 300, 'story', 'ahof', 100, 'story', 'ff', 300)
248
249 obj5 = read('Khalid',96651, 'Khalid@com', 'religious', 'bdm', 200, 'religious', 'ssc', 250, 'religious', 'ccs', 300, 'literature', 'ahof', 100, 'history', 'ff', 300)
250
251 obj6 = read('Saleh',96612, 'Saleh@com', 'scientist', 'bdm', 200, 'scientist', 'ssc', 250, 'literature', 'ccs', 300, 'literature', 'ahof', 100, 'story', 'ff', 300)
252
253 obj7 = read('Mohammed',96622, 'Mohammed@com', 'history', 'bdm', 200, 'scientist', 'ssc', 250, 'literature', 'ccs', 300, 'scientist', 'ahof', 100, 'story', 'ff', 300)
254
255 obj8 = read('Bandar',96612, 'Bader@com', 'literature', 'bdm', 200, 'scientist', 'ssc', 250, 'scientist', 'ccs', 300, 'history', 'ahof', 100, 'story', 'ff', 300)
256
257 obj9 = read('Abdulelah',96629, 'Abdulelah@com', 'history', 'bdm', 200, 'literature', 'ssc', 250, 'history', 'ccs', 300, 'history', 'ahof', 100, 'story', 'ff', 300)
258
259 obj10 = read('Eyad',96699, 'eyad@com', 'Literature', 'bdm', 500, 'literature', 'ssc', 250, 'history', 'ccs', 300, 'cv', 'ahof', 100, 'cv', 'ff', 300)
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C:\WINDOWS\system32\cmd.exe

NAME	ALL PAGES
Abdullah	1150
Abdullrahman	900
Abdullaziz	1150
Omar	1150
Khalid	1150
Saleh	1150
Mohammed	1150
Bandar	1150
Abdulelah	1150
Eyad	1450

All the group members have read 11550 pages by 50 books

The one who read pages the most is Eyad by 1450 pages

CATAGORY	BOOKS
history	9
story	13
scientist	6
religious	3
literature	17
other	2

The most catagory was read is literature by 17 books

Press any key to continue . . .

117%

Error List Output

Ready