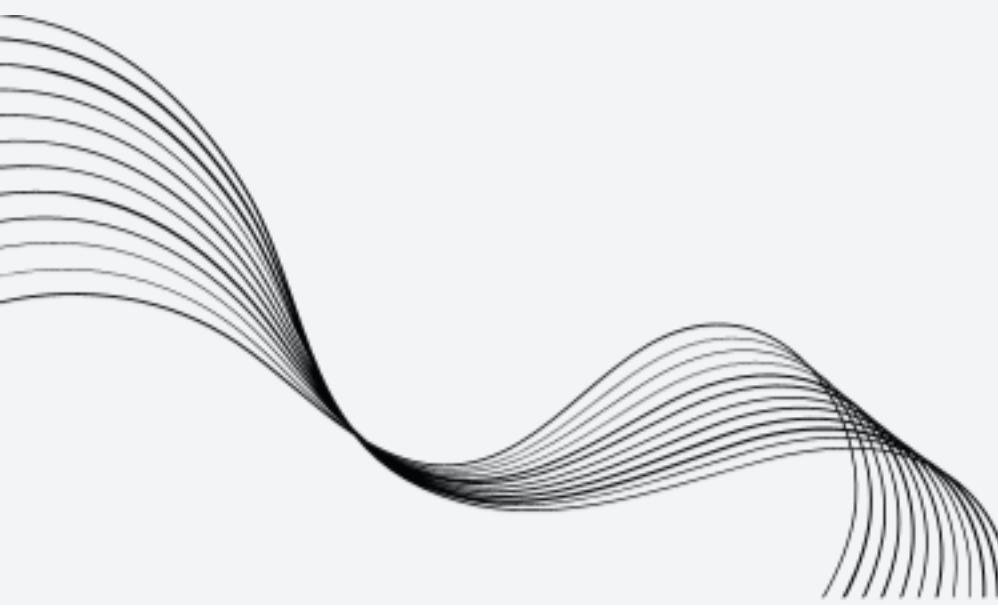




OOP

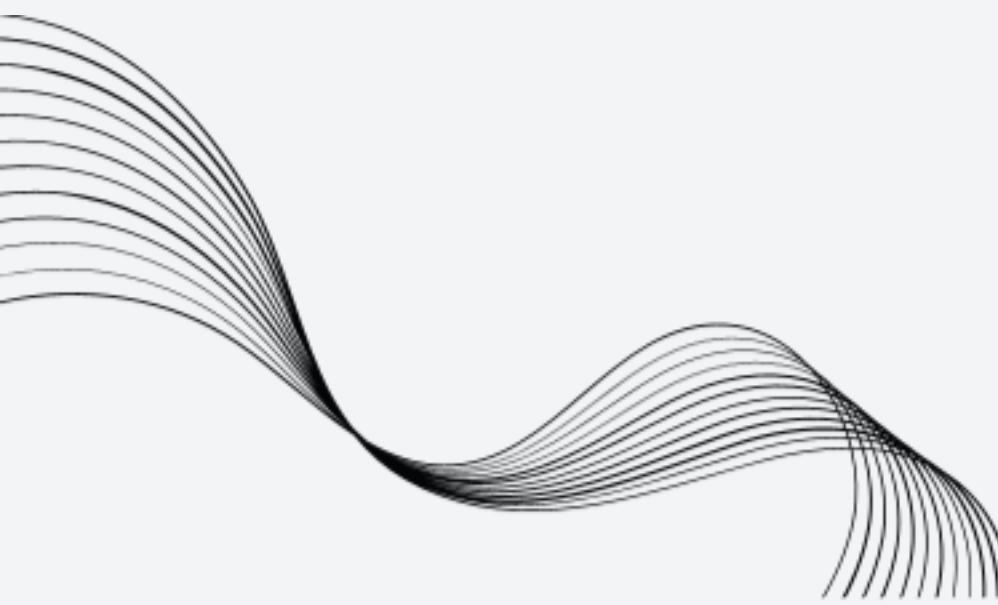
Introduction

- Object Oriented Programming
- Paradigm Or Coding Style
- Allows To Organize Your Code And
make It Readable And Reusable



Introduction

- Depends on Class & Object
- If Man Is Object ?
- Attributes : Name , Age , Address
- Methods : Walking , talking , Eating

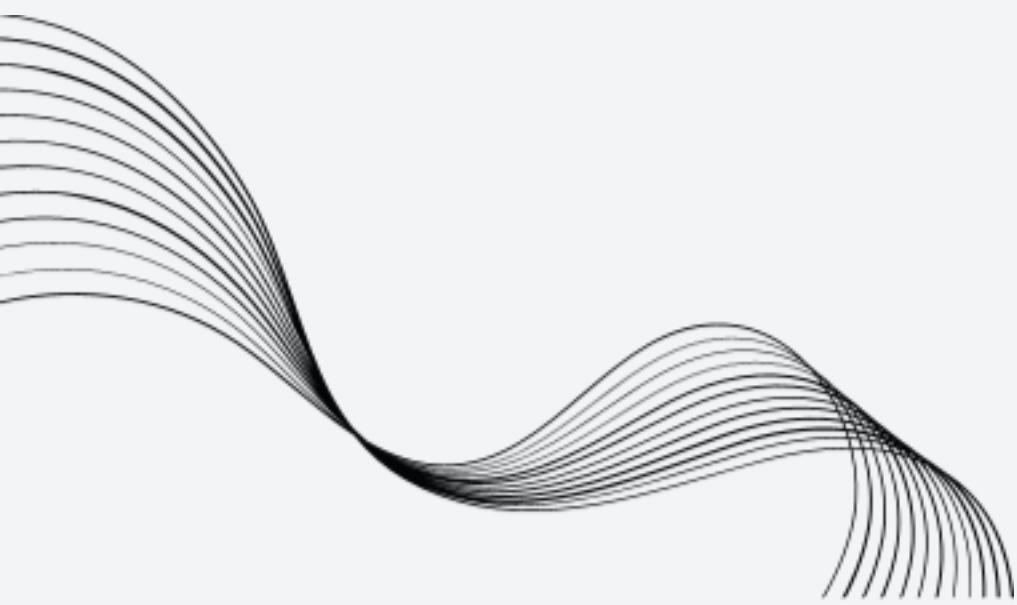


الصفات او الخصائص : Attributes

Methods : Actions

Introduction

- If Car Is Object ?
- Attributes : ?
- Methods : ?



Class

- class is template of object

```
1 #      Syntax :  
2 #  
3 #          class name :  
4 #  
5 #          def __init__(self,other data):  
6 #              body of function
```

Class

```
1 class Member:  
2     def __init__(self):  
3         print("Hello From The Object")  
4  
5  
6 Member() # object  
7 Member() # object  
8 Member() # object
```

Attributes

```
1 class Member:  
2     def __init__(self):  
3         self.name = "ahmed"  
4  
5 member_one = Member()  
6 print(member_one.name)
```

Attributes

```
1 class Member:  
2     def __init__(self,fname,lname):  
3         self.first_name = fname  
4         self.last_name = lname  
5  
6  
7 member_one = Member("Ahmed","Elfrash")  
8 print(member_one.first_name)  
9 print(member_one.last_name)
```

Methods



```
1 class Member:  
2     def __init__(self,fname,lname):  
3         self.first_name = fname  
4         self.last_name = lname  
5  
6     def get_fullname(self) :  
7         return f"{self.first_name} {  
8             self.last_name}"  
9  
10 member_one = Member("Ahmed","Elfrash"  
11 )  
12 print(member_one.get_fullname())
```

Methods

```
1 class Member:  
2     def __init__(self,fname,lname , gender):  
3         self.first_name = fname  
4         self.last_name = lname  
5         self.gender = gender  
6  
7     def get_fullname(self) :  
8         return f"{self.first_name} {self.last_name} "  
9     def fullname(self) :  
10        if self.gender == "male" :  
11            return f"Hello Mr {self.first_name} {self.last_name} "  
12        elif self.gender == "female" :  
13            return f"Hello miss {self.first_name} {self.last_name} "  
14        else :  
15            return f"Hello {self.first_name} {self.last_name} "  
16  
17  
18 member_one = Member("Ahmed","Elfrash","male")  
19 member_two = Member("Mona","Yasser","female")  
20 member_three = Member("Mohamed","Fahmy","good")  
21  
22 print(member_one.fullname())  
23 print(member_two.fullname())  
24 print(member_three.fullname())
```

TASK



```
1 class User:  
2     # Write Class Content  
3  
4 user_one = User("Osama", "Mohamed", 38, "Male")  
5 user_two = User("Eman", "Omar", 25, "Female")  
6  
7 print(user_one.full_details())  
# Hello Mr Osama M. [02] Years To Reach 40  
8 print(user_two.full_details())  
# Hello Mrs Eman O. [15] Years To Reach 40
```

قم بكتابة محتويات ال class لظهور النتيجة كما فالمثال



تأكد ان الشخص يظهر له اللقب بناء عن ال gender



قم بطباعة رسالة العمر كما في المثال عن طريق طرح
العمر من رقم 40



THANK YOU

