



DAY 8 OF 200 DAY'S PYTHON CHALLENGE



OBJECT ORIENTED PROGRAMMING SYSTEM(OOPS)

Object-oriented programming (OOP) is a programming paradigm that uses objects and classes in programming. OOPs, concepts in python, aim to implement real-world entities like inheritance, polymorphisms, encapsulation, etc., in the programming.



Day 8.py

```
class test:  
    pass  
a = test()  
print(type(a))
```

EXAMPLES



Day 8.py

```
class Practice:
    def welcome_msg(self):
        print("Welcome to 200 day's Challenge")

abhi=Practice()
abhi.welcome_msg()
```



Day 8.py

```
class accademy:
    def __init__(self, Ph_no, email_id, st_id):
        # self keyword is bounding any variable into the class
        self.Ph_no = Ph_no
        self.email_id = email_id
        self.st_id = st_id

    def return_msg(self):
        return self.Ph_no, self.email_id, self.st_id
```

POLYMORPHISM

Polymorphism is the ability for an object to take on many forms. This allows for different objects to be treated in the same way, even if they have different implementations.



Day 8.py

```
class data_science:
    def syllabus(self):
        print("Data Science")
class web_dev:
    def syllabus(self):
        print("Web Dev")
def class_parcer(class_obj):
    for i in class_obj:
        i.syllabus()
data_science = data_science()
web_dev = web_dev()
class_obj = [data_science,web_dev]
class_parcer(class_obj)
```

ENCAPSULATION

Encapsulation is the bundling of data and methods into a single unit, called an object. This bundling helps to protect the data from outside interference and ensures that the data is used in a consistent manner.



Day 8.py

```
class test:
    def __init__(self, year, speed):
        self.__year = year
        self.__speed = speed

    def set_speed(self, speed):
        self.__speed = 0 if speed < 0 else speed

    def get_speed(self):
        return self.__speed
```

BANK MANAGEMENT



Day 8.py

```
class bank_account:

    def __init__(self, balance):
        self.__balance = balance

    def deposit(self, amount):
        self.__balance = self.__balance + amount

    def withdraw(self, amount):
        if self.__balance >= amount:
            self.__balance = self.__balance - amount
            return True
        else:
            return False

    def get_balance(self):
        return self.__balance
```

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