Today's Topic

Object Oriented Programming

The Observation

"Everything in python is an **Object**"

But what is an Object?

And what is OOP?

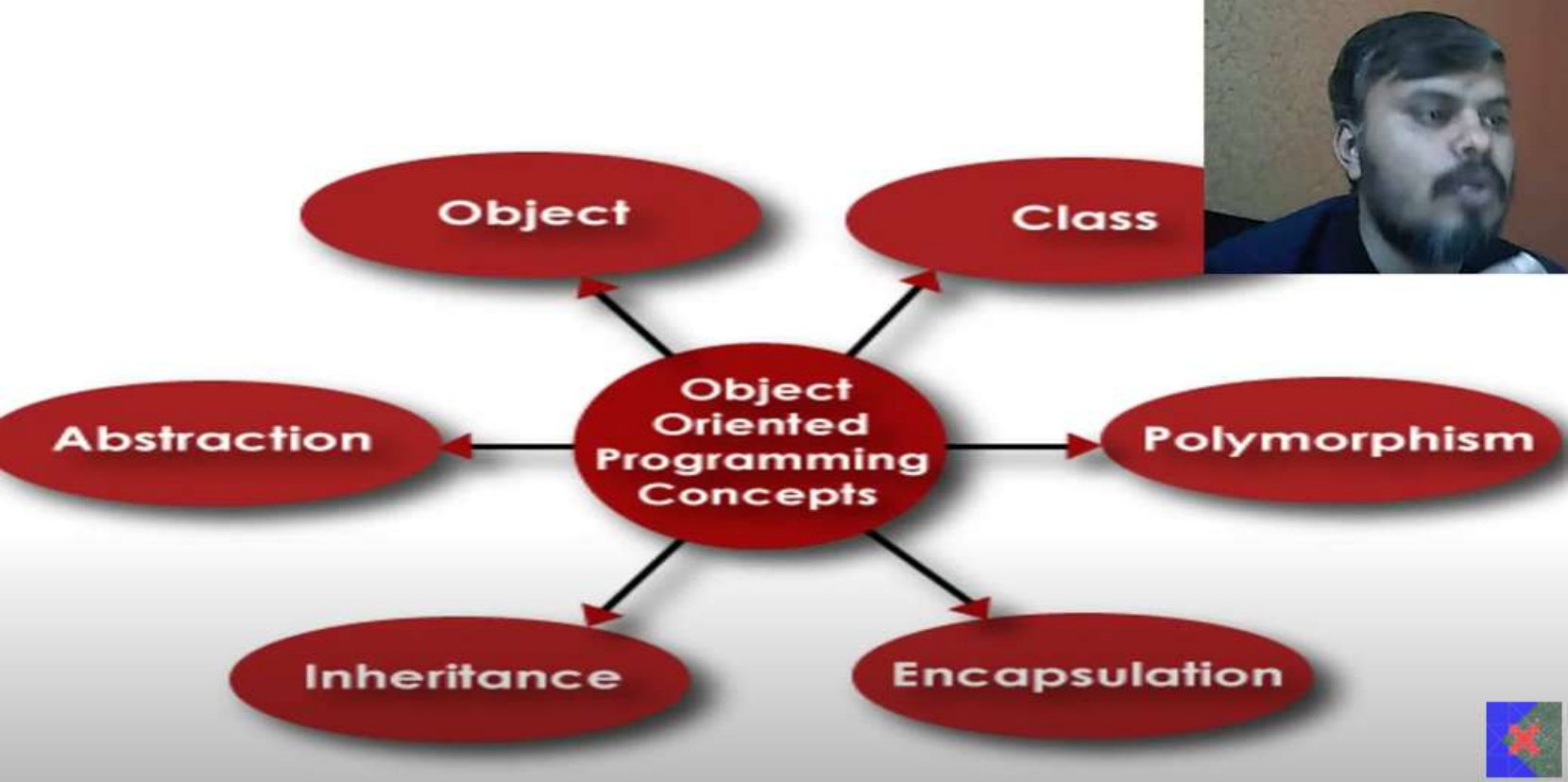
The problem!

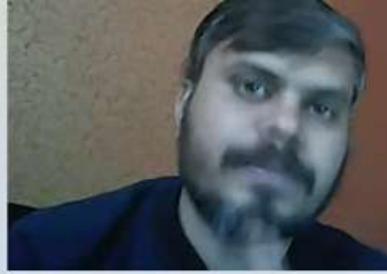
The Solution

Generality to Specificity

Press Esc to exit full screen

So, What is Object Oriented Programming


Object
Class
Abstraction
Object Oriented Programming Concepts
Polymorphism
Inheritance
Encapsulation



Class

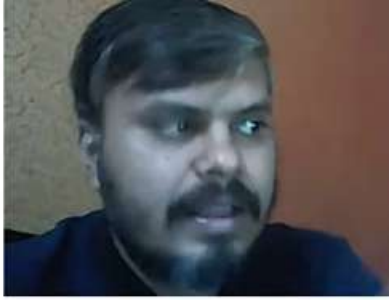
Class is a blueprint

Class

Data or property

Functions or behavior

Class Basic Structure



```
class Car:
    color=”blue” #data
    model=”sports” #data
    def calculate_avg_speed(km,time):
        #Some code
```

Object

Object is an instance of the Class

Object Examples

1. Car----------->WagorR // wagonr=Car()
2. Sports---------->Gilli Danda// gillidanda=Sports()
3. Animals---------->Langoor// langoor=Animals()

Methods Vs Functions

Magic Methods

A.k.a Dunder Methods