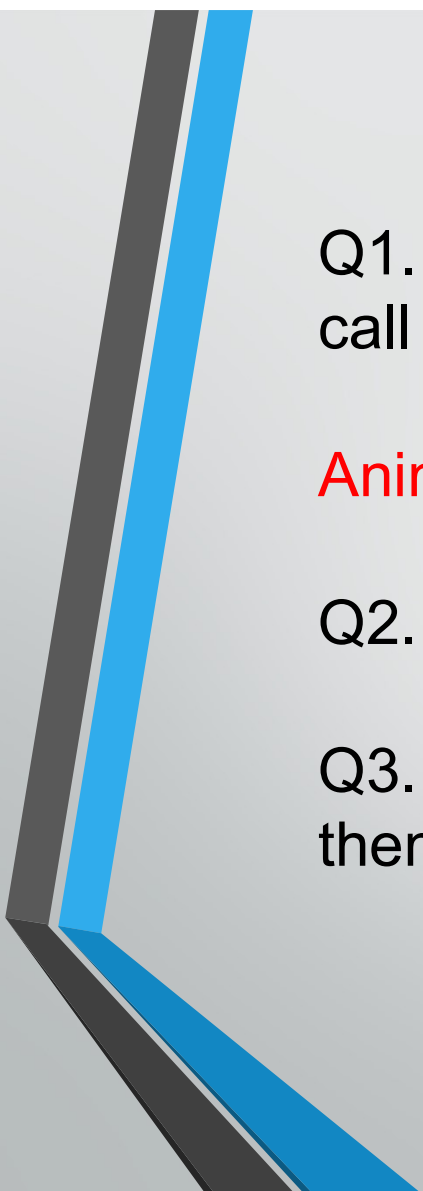


Topics Of the Day5

- WHAT IS A CLASS METHOD?
- Some Introspections Methods
- MAGIC DUNDER METHODS:
- OPERATOR OVERLOADING IN PYTHON
- WHAT IS FUNCTION CACHING?
- WHAT IS ASYNCIO
- How to Use Multithreading in Python
- WHAT IS MULTIPROCESSING?
- Modules (Time,Argparse,Shutil)

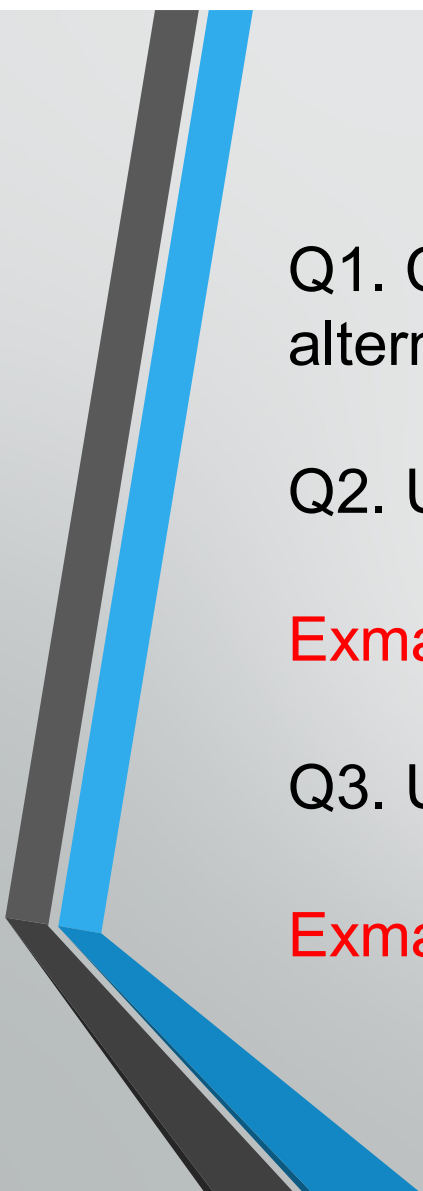


Q1. Create Animal → Dog and create given method then call dog's method.

Animal → info Dog → bark

Q2. Access a private variable (id) using name-mangling

Q3. Create **instance variables** for name and age and show them for two objects



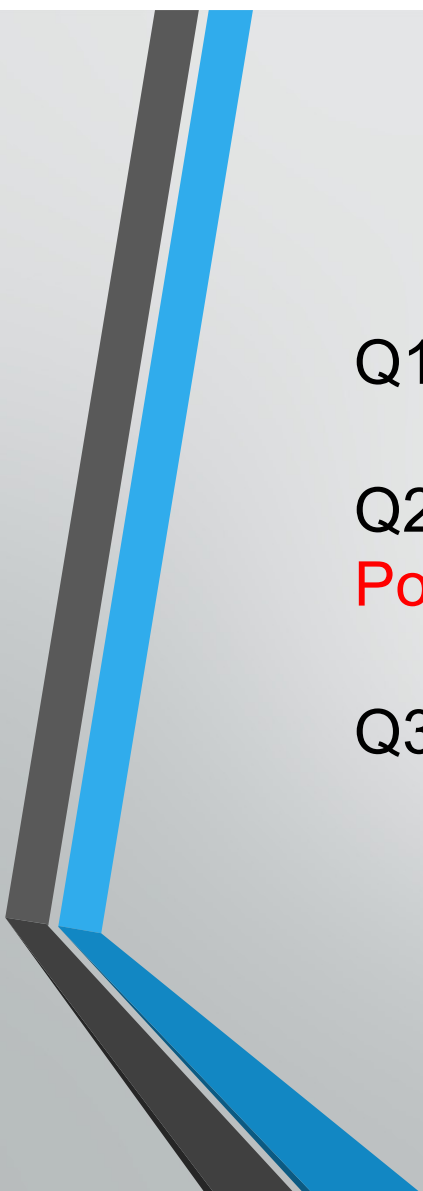
Q1. Create object from a string "name-age-id" using alternative constructor

Q2. Use `super()` to call parent constructor.

Exmaple: `Base(name,age) → Derived(name,age,language)`

Q3. Use `super()` to access parent class method.

Exmaple: `Base → showinfo()` and `Derived showinfo()`



Q1. Create a class using `__str__()` method.

Q2. Overload `*` operator for multiplying object values.
`Point(4,6) * Point(2,5) → Point(8,30)`

Q3. Add new method in child not in parent



Create class A and B, and class C inheriting from A and B.

A \rightarrow B \rightarrow C (three-level inheritance) and call methods of all and use `super()` to pass value

A \rightarrow name

B \rightarrow age

C \rightarrow course

Create a hybrid structure: A \rightarrow B, A \rightarrow C, C \rightarrow D.