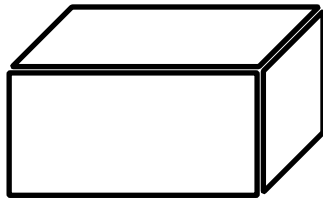


How to Write a class



Methods :

lidarea() = $l * b$
total() = $l * b * b * h * l * h$
volume = $l * b * h$

Writing a class using java

```
Class cuboid
{
int length;
int breath;
int height;
cubiod(int length,int breath,int height)
```

#constructor will have same name as class name . It is use to initialise the object

```
{
length = l;
breadth = b;
height = h;
}
int lidarea(){....}
int total(){.....}
int volume () {.....}
}
```

Writing a class in python

- When we write a variable we also need to initialise it . Initialisation is done in constructor (java) but in python we can write constructor method
- Initialising and declaring both should be done in python

```
class Cuboid:
    def __init__(self, l, b, h):
        self.length = l
        self.breadth = b
        self.height = h

    def lidarea(self):
        return self.length * self.breadth

    def total(self):
        return 2 * (self.length * self.breadth + self.breadth * self.height + self.length * self.height)

    def volume(self):
        return self.length * self.breadth * self.height

c1 = Cuboid(10, 5, 3)
print(c1.volume())

c2 = Cuboid(20, 10, 5)
print(c2.volume())
```

- First parameter should be self , it is defined to declare and initialise it and properties are defined inside the function `__init__` and this is standard function that acts as the constructor in class .

Create object in java'

```
Cuboid c1=new cuboid(10,5,3)
```

Create object in python

```
c1=cuboid(10,5,3)
```