

TASK On ABSTRACTION

Task: Build a class Car with brand name as class variable, and methods like engineStart, engineStop, accelerate, brake, sudden brake, gear.

For every call of accelerate must increase speed by 25 kmph and when car reaches the speed of 300 kmph it should say max speed reached,

Every call of gear function must change gear from 1,2,3 upto 5.

For each call to break must reduce the speed by 25 kmph. When sudden break method is called then the speed must be 0.

```
class Car:
    brand_name='Audi'
    speed=0
    __gear=0
    def engineStart(self):
        print(f'{self.brand_name} has started')
    def engineStop(self):
        print(f'{self.brand_name} has stopped')
    def accelerate(self):
        self.speed+=25
        if self.speed==300:
            print('Max speed reached')
        else:
            print(self.speed)
    def brake(self):
        self.speed-=20
        print('speed reduced to 20kmph')
    def suddenbrake(self):
```

```
        self.speed=0
        print('speed became 0')
    def gear(self):
        self.__gear+=1
        print(self.__gear)
        if self.__gear==5:
            print('go slow')
        print()
c1=Car()
c1.engineStart()
c1.engineStop()
c1.accelerate()
c1.brake()
c1.suddenbrake()
c1.gear()
```