/\*OOPS CONSTRUCTOR\*/

II(BCA 24-27)RB

class Car:

    def \_\_init\_\_(self, make, model, year):

        self.make = make

        self.model = model

        self.year = year

        self.current\_speed = 0

    def accelerate(self, speed\_increase):

        print(f"Accelerating by {speed\_increase} km/h...")

        self.current\_speed += speed\_increase

    def brake(self, speed\_decrease):

        print(f"Applying brake: reducing speed by {speed\_decrease} km/h...")

        self.current\_speed -= speed\_decrease

    def get\_speed(self):

        return self.current\_speed

# Create a car object

my\_car = Car("Toyota", "Corolla", 2022)

# Display car information

print("Car details")

print("\n\*\*\*\*\*\*\*\*\*\*\*\*")

print(f"Make: {my\_car.make}")

print(f"Model: {my\_car.model}")

print(f"Year: {my\_car.year}")

# Accelerate the car

my\_car.accelerate(20)

print(f"Current speed after accelerating: {my\_car.get\_speed()} km/h")

# Apply brake

my\_car.brake(10)

print(f"Current speed after braking: {my\_car.get\_speed()} km/h")

OUTPUT:

Car details

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Make: Toyota

Model: Corolla

Year: 2022

Accelerating by 20 km/h...

Current speed after accelerating: 20 km/h

Applying brake: reducing speed by 10 km/h...

Current speed after braking: 10 km/h