**1)Write a “person” class to hold all the details**

# Create an instance of the Person class with Avinash's details

avinash = Person(

name="Avinash",

place="Pondicherry",

high\_school="Blue Star High Secondary School",

study\_duration="three months",

skills=["full-stack development", "UI/UX design", "HTML", "CSS", "JavaScript", "Angular", "React", "backend with Python", "SQL database"],

father\_name="Mr. Amaraj",

father\_job="driver",

mother\_name="Mrs. Karichedi",

mother\_job="housewife",

hobbies=["playing cricket", "chatting with friends", "listening to music", "scrolling Instagram", "reading books"],

strengths=["good and quick learner"],

weaknesses=["introverted"],

favorite\_cricket\_team="CSK (Chennai Super Kings)",

favorite\_player="MS Dhoni",

songs\_preferences=["interactive", "melodious", "love-themed", "sweet", "evoking feelings of love", "portraying a royal love story like 'Kanna Raga' from the movie 3"],

college="Manapura Manager Institute of Technology",

degree="B.Tech Computer Science Engineering",

additional\_skills=["UX design", "interaction design", "prototyping"],

goals="improve communication skills, including spoken English"

)

# Print the introduction

print(avinash.introduce())

**2) write a class to calculate the Uber price**

class UberPriceCalculator:

def \_\_init\_\_(self, base\_fare, cost\_per\_mile, cost\_per\_minute, surge\_multiplier=1.0):

self.base\_fare = base\_fare

self.cost\_per\_mile = cost\_per\_mile

self.cost\_per\_minute = cost\_per\_minute

self.surge\_multiplier = surge\_multiplier

def calculate\_price(self, miles, minutes):

distance\_cost = self.cost\_per\_mile \* miles

time\_cost = self.cost\_per\_minute \* minutes

total\_cost = (self.base\_fare + distance\_cost + time\_cost) \* self.surge\_multiplier

return total\_cost

# Example usage

base\_fare = 2.50

cost\_per\_mile = 1.75

cost\_per\_minute = 0.25

surge\_multiplier = 1.2 # Example surge pricing

calculator = UberPriceCalculator(base\_fare, cost\_per\_mile, cost\_per\_minute, surge\_multiplier)

miles = 10

minutes = 20

price = calculator.calculate\_price(miles, minutes)

print(f"The total Uber price is: ${price:.2f}")