**1.FUNCTION CREATES AND RETURNS AN OBJECT**

class Car:

def \_\_init\_\_(self, brand, speed):

self.brand = brand

self.speed = speed

def display(self):

print(f"Brand: {self.brand}, Speed: {self.speed} km/h")

def create\_car():

car1 = Car("Toyota", 180)

return car1

my\_car = create\_car()

my\_car.display()

**OUTPUT:**

Brand: Toyota, Speed: 180 km/h

**2.FUNCTION TAKES STUDENT OBJECT AS AN ARGUMENT AND PRINT THE STUDENT INFORMATION**

class Student:

def \_\_init\_\_(self, name, marks):

self.name = name

self.marks = marks

def print\_student\_info(student):

print(f"Name: {student.name}, Marks: {student.marks}")

s1 = Student("tillu", 92)

print\_student\_info(s1)

**OUTPUT:**

Name: tillu, Marks: 92

**3.FUNCTION THAT RETURN A CIRCLE OBJECT CREATED WITH A RADIUS**

class Circle:

def \_\_init\_\_(self, radius):

self.radius = radius

def area(self):

return 3.14 \* self.radius \* self.radius

def get\_circle(r):

return Circle(r)

c = get\_circle(5)

print("Area of circle:", c.area())

**OUTPUT:**

Area of circle: 78.5

**4.FUNCTION THAT RETURNS A LIST OF 3 BOOKS**

class Book:

def \_\_init\_\_(self, title):

self.title = title

def create\_book\_list():

return [Book("Python 101"), Book("AI Basics"), Book("Data Science")]

books = create\_book\_list()

for b in books:

print("Book title:", b.title)

**OUTPUT:**

Book title: Python 101

Book title: AI Basics

Book title: Data Science