Lab 09: Using Classes and objects.

Variants:

1. Employee Class:

• Create a class **Employee** to represent an employee with attributes such as name, age, and ID, and methods to display information about the employee.

2. Car Class:

• Create a class Car to represent a car with attributes such as model, color, and year, and methods to print information about the car.

3. Rectangle Class:

• Implement a class **Rectangle** to represent a rectangle. Include methods for calculating area and perimeter.

4. Bank Account Class:

• Create a class **BankAccount** to represent a bank account with methods for depositing, withdrawing money, and checking the balance.

5. Student Class:

• Implement a class **Student** to represent a student with attributes like name, age, and a list of grades. Include a method to calculate the average grade.

6. Triangle Class:

• Create a class **Triangle** to represent a triangle with attributes for side lengths and a method to determine the type of triangle (equilateral, isosceles, or scalene).

7. Book Class:

• Implement a class **Book** to represent a book with attributes such as title, author, and publication year.

8. Circle Class:

• Create a class **Circle** to represent a circle with a radius attribute and methods for calculating area and circumference.

9. Task Class:

• Implement a class **Task** to represent a task with attributes like description and completion status (done/not done).

10. **Computer Class:**

• Create a class **Computer** to represent a computer with attributes such as model, processor, and memory.

11. **House Class:**

• Implement a class **House** to represent a house with attributes like the number of rooms, area, and address.

12. **Product Class:**

• Create a class **Product** to represent a product in a store with attributes like name, price, and quantity in stock.

13. Address Class:

• Implement a class **Address** to represent an address with attributes like street, city, postal code, and country.

14. **Job Class:**

• Create a class **Job** to represent a job with attributes such as title, salary, and requirements for applicants.

15. **Team Class:**

- Implement a class **Team** to represent a sports team with attributes like name and a list of players.
- 16. **Planet Class:**
- Create a class Planet to represent a planet with attributes like name, radius, and distance from the Sun.
- 17. **Movie Class:**
- Implement a class **Movie** to represent a movie with attributes like title, director, and release year.
- 18. **Luggage Class:**
- Create a class **Luggage** to represent luggage with attributes like weight, size, and type (carry-on, checked).
- 19. Chair Class:
- Implement a class **Chair** to represent a chair with attributes like color, material, and comfort level.
- 20. **Store Class:**
- Create a class **Store** to represent a store with attributes like name, address, and a list of products.