CDAC Mumbai PG-DAC August 24

Assignment No-5

1)	Create a base class BankAccount with methods like deposit() and withdraw(). Derive a class
	SavingsAccount that overrides the withdraw() method to impose a limit on the withdrawal amount.
	Write a program that demonstrates the use of overridden methods and proper access modifiers &
	return the details

- 2) Create a base class Vehicle with attributes like make and year. Provide a constructor in Vehicle to initialize these attributes. Derive a class Car that has an additional attribute model and write a constructor that initializes make, year, and model. Write a program to create a Car object and display its details.
- 3) Create a base class Animal with attributes like name, and methods like eat() and sleep(). Create a subclass Dog that inherits from Animal and has an additional method bark(). Write a program to demonstrate the use of inheritance by creating objects of Animal and Dog and calling their methods.
- 4) Build a class Student which contains details about the Student and compile and run its instance.
- 5) Write a Java program to create a base class Vehicle with methods startEngine() and stopEngine(). Create two subclasses Car and Motorcycle. Override the startEngine() and stopEngine() methods in each subclass to start and stop the engines differently.