PROBLEM 1:- SIMPLE ASCII ART

```
public class SmileyFace {
  public static void main(String[] args) {
   System.out.println(" ### ### ");
   System.out.println("#
                               #");
   System.out.println("# ## ## ");
   System.out.println("# ## ## ");
   System.out.println("#
                               # ");
   System.out.println("# # # ");
   System.out.println(" # # # ");
   System.out.println(" # ##### # ");
 }
}
PROBLEM 2:- SMILY CAT FACE
public class CatArt {
  public static void main(String[] args) {
   System.out.println(" /\\
                                /\\ ");
   System.out.println(" / \\___
                               ____/ \\");
   System.out.println(" /
                                \\ ");
   System.out.println(" ( /\\
                               /\\ )");
   System.out.println(" ==== v ====
                                           ");
   System.out.println(" ===== (_|_) =====
                                                   ");
   System.out.println(" (
                               ) ");
   System.out.println(" (___
                                                 ");
 }
```

}

PROBLEM 3: **SNAKE BOX FACTORY**

Object 1: Snake
Properties:
ID: Unique identifier for each snake.
Type : Type or breed of the snake (e.g., Python, Cobra).
Status: Current status of the snake (e.g., Idle, In Transit, Delivered).
Behaviors:
Transport Box : Carries the box from one department to another.
Update Status : Changes the status of the snake (e.g., from Idle to In Transit).
Check Availability: Checks if the snake is available for the next delivery.
Object 2: Box
Properties:
ID: Unique identifier for each box.
Size: Dimensions of the box (e.g., small, medium, large).
Contents: Description of what is inside the box.
Behaviors:
Update Contents : Adds or removes items from the box.
Check Status: Provides information on the current status of the box (e.g., Packed, In Transit).
Track Location : Updates and provides the current location of the box.
Object 3: Order
Properties:

Order ID: Unique identifier for each order.

Customer Info: Information about the customer placing the order (e.g., name, address).

Order Status: Current status of the order (e.g., Processing, Shipped, Delivered).

Behaviors:

Process Order: Initiates the steps to prepare the order for shipment.

Update Order Status: Changes the status of the order as it progresses through different stages.

Generate Invoice: Creates an invoice for the order once it is completed.

Example Document Structure

Introduction

- Purpose of the software solution
- Overview of the Snake Box Factory's needs

Objects and Classes

- Detailed descriptions of the Snake, Box, and Order objects
- Properties and behaviors for each object

Software Architecture

- Overview of the system architecture
- Explanation of how objects interact within the system

Database Schema

- Tables and relationships between tables
- Sample queries for common operations

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Implementation Plan

Steps for developing and deploying the software

• Timeline and milestones

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Testing Plan

- Types of testing to be performed (unit testing, integration testing)
- Criteria for successful deployment