## ICE CREAM



Planning Domain
Definition Language
(PDDL) Project



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## Project Description

We have created a PDDL problem and domain file that demonstrates an ice-cream company production system. In our problem we can create as many layers and variations as we want.





### Problem Statement

In our problem file we have objects such as order (shop order), chocolate type (white chocolate), extra element (vanilla), cone type (thin cone), sprinkles. Initially we need an order and particular types of flavours. Then we will be asked to assemble it. Aim of our project is to complete the order, have all the flavours in the ice-cream, package it and then deliver.

## Predicates



#### Packaging

If ice-cream is assembeld then it will be packaged but they won't be delivered yet.

### Delivery

If packaging is completed and not delivered yet we will deliver it.



## Domain Statement

Order
If there is an order we will start the production.

### Add Flavours

#### Add-chocolate

If the order requires chocolates and there is available chocolate it will be added.

#### Add-sprinkles

If the order requires sprinkles and there is available sprinkles it will be added.



#### Add-vanilla

If the order requires vanilla and there is available vanilla it will be added.

#### Add-cone

If the order requires cone and there is available cone it will be added.

## FUTURE PROJECTS





- > We will add production cost and optimize it.
- > We will add ice-cream cart.
- We will add multiple variations of ice-creams (Cup ice-cream, ice-cream cake).
- We'll start the production process from the very basic level.

# THAKS

