Foresty Simulation Project 2 Object Oranged Agnalysis & Design

Analysis

Domain:

- Tree species

· Getters

year of planting · height

· bon

· south rall

- Faces

· forest None

· Awaylist of tes

· weeks di

- Faresty Smulation

· main

· Load

·Save

· Read File

Function Ports

-Tru:

" Carow: in ween height by frouth water

" better

- Forest

· Print

· add a tree

· Cut a tree

· grow a kree weep trees

· Scenarios

- Cut >> three >> Error 1

- resp -> nivery -> Every

- rep > 10 -> out of range

```
Pesign
  · Classes & orjens
     - Tu class
      - Forest dass (filled with trees)
      - Driver Class (Forestry Simulation)
 - Porty
- tree ... public erum Spenes (Maple, Fir, Branch)
... Comes spenes
          · Prime in year of Plusting
          · Prome double hership
          · Prime double bourthfall
      - Foess public Strong rame
          · Public Arrayled of Trees
          · CONSTANTS (MAX-HÖIGHT,...)
  · Mushoss:
      -tree:
          · Constructor (speaces, year of plans, height, Grown role)
         · got spenes, get Year, get Herght, get GoushPar
         · grow I void, grows a tree by growthera
         · to Strug -> Strug
      - Forest
         · Consular (forthame, Arrylat of trees)
         · point -> roid, displays frost
         · odd the of Forest) & Farest
        - Cost tra (Forest, tree Man W) -> Farest
        · grow trus ( Force ) -> Force
        - resp trees (Forst, scaptleght) > Forest
      Forestry Simbolin
         oman -> void, switch statemen, do whill, ty-cutch
        · Rend Fix (finns ne) & frey (4) of Theis
        · Some Fix (fort, fort Mare) ~ void
        - land File (force Mane) > Forces
```