UML CLASS DIAGRAMM

Command

direction : String # length : int + (ommand (length: int, direction: String) + get Length (): int + get Direction () : String Command Parser # commands : Queue < Commands> : Army List & String > # Words + Command Parser (program: String) - extract Words (program: String): void + get Words () : ArrayList & String > + parse (words : Array List) : Quene ¿ Commend >

Java. Swing, event. DocumentListener CovidRenderer - PREFERED_IMAGE_SIZE : DIMENSION DIMENSION - FRAME_SIZE : - TEXT_AREA_WIDTH : - create Text Area (listener: Documentlistener): JScroll Pane - create Right Panel (text Aren: JComponent): JPanel + main (args : String[]): void + paint Component (g : Graphics) : void + insert Upolate (e: Document Event): void + remove Update (e: Document Event): void + change Update (e. Document Event): void - on Change (e: Document Event)

Environment

- + SIZE : int
- + areas : Area [][]
- # player ; Hooman
- spots X: ArrayList & Integer >
- spots Y: Array List & Integer>
- Environment (areas : Area [][])
- + empty () : Environment
- Covid Fields (area : Area [][], amount: int): void
- updater () : Environment
- + is Covid Spot (position X: int, position Y: int): boolen
- + create From (program : String) : Environment

enumeration Area

CURRENT

TRAIL

SAFE

COVID

Hooman

- $v \times : int$
- Ny: int
- ~ infected: boolean
- + Hooman (x: int, y: int, infected: book an)
- + setx(x:int):void
- + set Y (y: int): woid
- ← ye+x(): int
 - + get Y () : int
 - + is Infected (): boolean
 - + set Infected (infected : bookan) : void
 - + move Left (moves: int) vold
 - + move Right (moves: int) voil
 - move Up (moves: int) void
 - + move Down (moves : int) void