PSEUDOCODE OF MAIN:

MAIN:

Instruction first = new Instruction(“PEN”, 1)

Instruction second = new Instruction(“REP”, 4)

Instruction third = new Instruction(“FWD”, 100)

Instruction fourth = new Instruction(“ROT”, 90)

Instruction fifth = new Instruction(“END”, 0)

List of Instruction li = new List of Instruction()

li.add(first)

li.add(second)

li.add(third)

li.add(fourth)

li.add(fifth)

Program p = new Program(li, 0)

if(!p.isCorrect()):

p.printError()

endif

else:

while (!p.isFinished()):

doInstruction(p.getInstruction(p.getIndex()))

p.AccessNext()

endWhile

endif

PSEUDOCODE OF INSTRUCTION:

function Instruction(code: String, parameter: Double):

Code = code

Parameter = parameter

endfunction

function String getCode()

return Code

endfunction

function Double getParameter()

return Parameter

endfunction

function int isCorrect()

if Code not PEN or Code not REP or Code not FWD or Code not ROT or Code not END:

return 0

endif

else:

return 1

endif

PSEUDOCODE OF PROGRAM:

function Program(Instructions: List of Instruction, Index: int)

ListOfInstruction = Instructions

this.Index = Index

endfunction

function void Restart()

Index = 0

endfunction

function void AccessNext()

Index = Index + 1

endfunction

function Bool isFinished()

if ListOfInstruction[Index] is END:

return true

endif

else:

return false

endif

endfunction

function Int isCorrect()

noerror: int

noerror = 1

while not ListOfInstruction[Index].isFinished():

if not ListOfInstruction[Index].isCorrect():

printError()

noerror = 0

endif

AccessNext()

endwhile

Restart()

return noerror

endfunction

function String printError()

return ListOfInstructions[Index].getCode()

endfunction