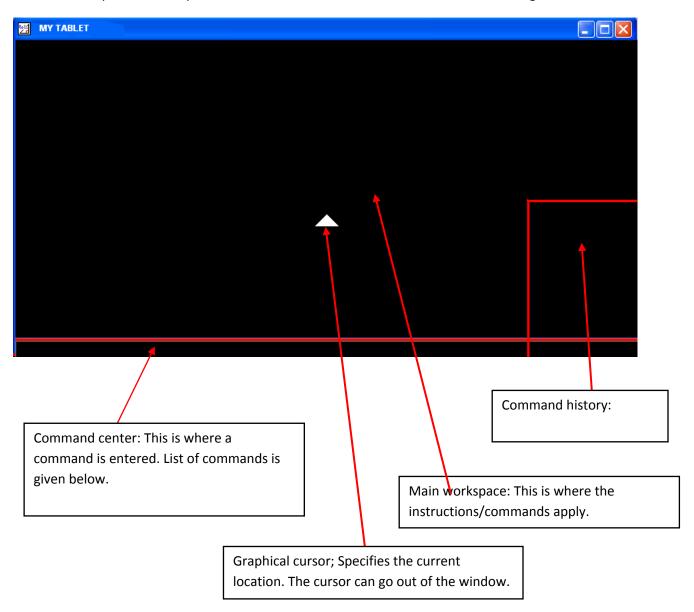
## Introduction to Computing Fall 2023 Final Project

You have to implement a simple Instructions based tablet for children. The interface is given below:



Default, initial direction is up and the pen is down.

List of commands: [ALL COMMANDS MUST BE IMPLEMENTED IN SEPARATE FUNCTIONS]

Commands	Evaluation Instructions
fd or forward [e.g. forward 60] moves forward	no space (fd40 or forward40) or multiple spaces (fd 40)
and makes a line.	must be handled. No space between fd. If f d 30. It is an
	unknown command.
bk or backward [e.g. backward 60] moves	
backwards	
rt [rt 90] right turn only angles multiple of 30	Still there should be no hard coding: i.e. by using repeated
and 45.	if-else (-2) Test for angle other than 45 e.g. 60.
It [It 90] left turn only angles multiple of 30	Still there should be no hard coding: i.e. by using repeated
and 45	if-else (-2) Test for angle other than 45 e.g. 60.
repeat [e.g. repeat 4[fd 50 rt 90] repeat all	The user can enter any number of commands. Any
instructions in square brackets [], n number of	command can be given except save, load or repeat within
times. In this case n is 4.	repeat. Perfect 10, some 5 poor 2
pu [pen up]	Does not draw anymore.
pd [pen down	
color [e.g. color BLACK] change color of pen.	Minimum of 10 colors must be handled
width [e.g. WIDTH 5] change width (pixel size)	3 sizes
of pen	
cs [clear screen]	
circle [e.g. circle 30] draw circle of given	The circle must put the cursor at centre (–2),
radius.	Must not hide the lines/drawing at the back. (-2)
save [e.g. save "abc.txt"] save up to last 100	Can be used anytime. Must use a 2d char array in program
commands in file.	to store commands
Load [e.g. load "myfile.txt"] load commands	File format: one instruction per line. Load can be use any
from file and execute.	time.
Error Handling	
For unknown commands the system must	
prompt "I don't know this command". E.g. eat	
90	
For incomplete commands the system must	
prompt "Incomplete command" . E.g. fd	

All instructions must be saved in a 2D character array. When the user gives the 'save' command store all instructions from this array to file.