Contents

1	\mathbf{K} id	Kid's Program in Python		
	1.1	Conter	nt	
		1.1.1	1. environment setup	
		1.1.2	2. draw with turtle	
		1.1.3	3. number, variable and math	
		1.1.4	4. loops	
		1.1.5	5. condition	
		1.1.6	6. random number	
		1.1.7	7. function	
		1.1.8	8. timer and animation	
		1.1.9	9. UI	
		1.1.10	10. game programming	
	1.2		ıle	
	#	mode:		

1 Kid's Program in Python

** Teach kids to code

1.1 Content

1.1.1 1. environment setup

• command line

start.bat
activate teach

- use vscode
- learn turtle lib
- learn input and print

1.1.2 2. draw with turtle

- square_{spiral.py}
- for loop

1.1.3 3. number, variable and math

- input, print variable
- simple math
- variable assignment and reference
- pizza.py
- string: input, print
- spiral with string
- solve your math problem

1.1.4 4. loops

- list, append
- IO
- for loop, while loop
- range, loop condition

1.1.5 5. condition

- if-else, elif statement
- boolean and comparision
- complex conditon: and or not
- string functions
- ascii value for characters

1.1.6 6. random number

- random
- cartesian coordinate
- card game
- dice
- kaleidoscope

1.1.7 7. function

- def, parameter, return
- random simley
- pingpongcalculator
- interaction with event-driven app

1.1.8 8. timer and animation

- pygame \$ python -m pip install pygame
- game event, game loop
- bouncy smiley face
- \bullet random dots

1.1.9 9. UI

- click and drag
- drawing game
- similey explosion
- simily pop

1.1.10 10. game programming

- animation and UI
- smiley pong
- class and object

1.2 Schedule

• 3 classes a week; each class 45

Tuesday	7PM
Thursday	$7\mathrm{PM}$
Sunday	9AM