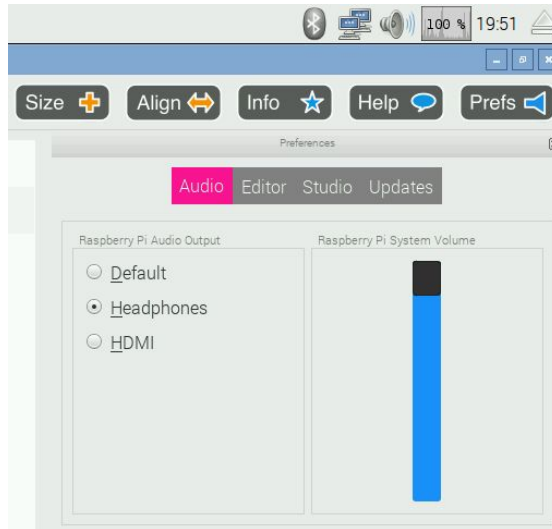


# Sonic Pi



# Run and setup Sonic Pi

- Connect the speakers to your Raspberry Pi (USB for power and 3.5mm jack)
- Click Menu > Programming > Sonic Pi
- In the IDE click Prefs, on the right hand side, select the headphones port and move the volume slider to maximum then click on Prefs to close the window.

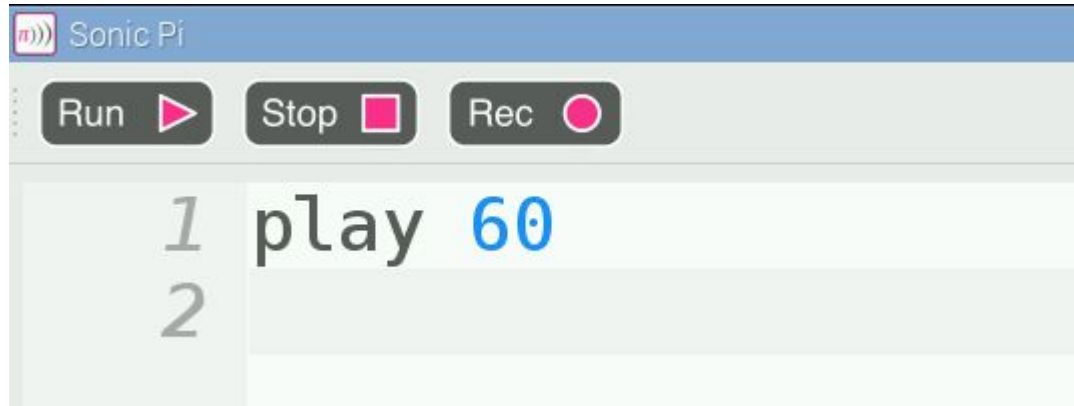


# Your First Note

- In the IDE you have 10 buffers (windows) you can type your code in

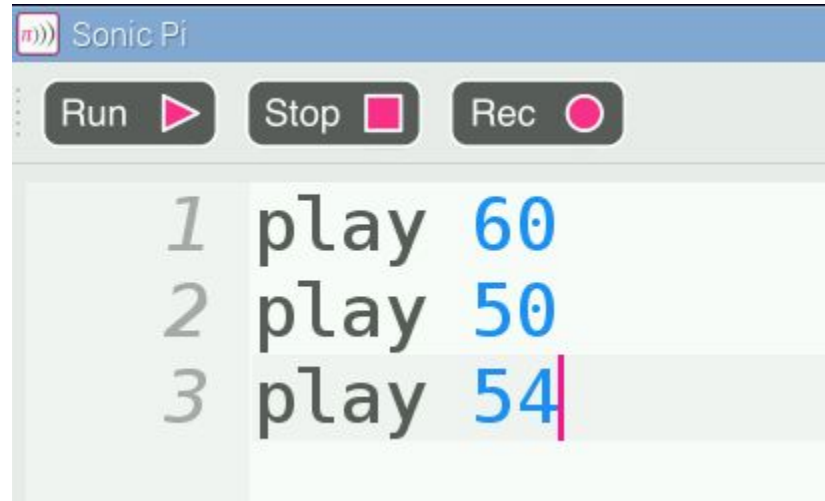


- Type the following into Buffer0 and then Click Run

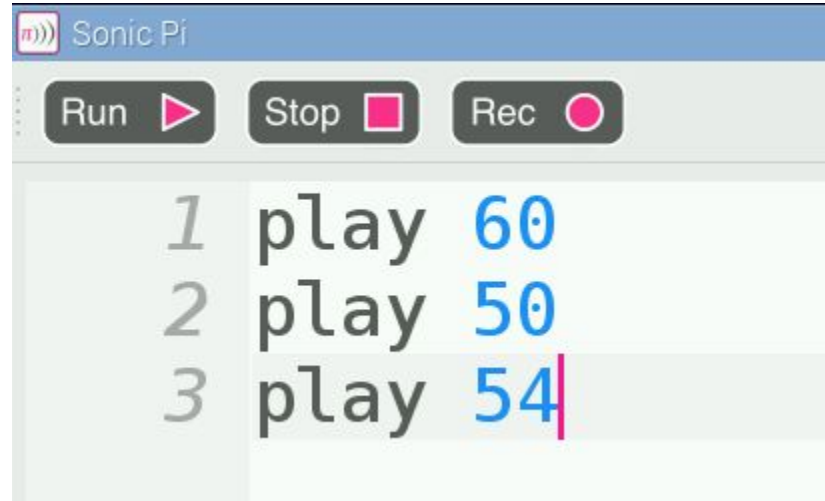


# Multiple Notes

Add the following and click Run - listen to the result and look at the log on the right



# That was a chord



# Multiple Notes

Add the sleeps and click Run - listen to the result and look at the log on the right



The image shows a screenshot of the Sonic Pi application window. The window has a blue title bar with the Sonic Pi logo and name. Below the title bar is a control bar with three buttons: 'Run' with a pink right-pointing triangle, 'Stop' with a pink square, and 'Rec' with a pink circle. The main area of the window is a light green background with a list of five numbered lines of code. The code is as follows:

```
1 play 60
2 sleep 1
3 play 50
4 sleep 1
5 play 54
```

The numbers 1 through 5 are in a light gray font. The words 'play' and 'sleep' are in a dark gray font. The numbers 60, 50, and 54 are in a bright blue font. The number 1 is followed by 'play 60', 2 is followed by 'sleep 1', 3 is followed by 'play 50', 4 is followed by 'sleep 1', and 5 is followed by 'play 54'. A vertical pink line is positioned at the end of the fifth line of code.

# Your First Tune

```
1 play 60  
2 sleep 0.5  
3 play 62  
4 sleep 0.5  
5 play 64  
6 sleep 0.5  
7 play 60  
8 sleep 0.5|
```

# Converting numbers to notes

Octave number	Chord number											
	C	Db	D	Eb	E	F	Gb	G	Ab	A	Bb	B
-1	0	1	2	3	4	5	6	7	8	9	10	11
0	12	13	14	15	16	17	18	19	20	21	22	23
1	24	25	26	27	28	29	30	31	32	33	34	35
2	36	37	38	39	40	41	42	43	44	45	46	47
3	48	49	50	51	52	53	54	55	56	57	58	59
4	60	61	62	63	64	65	66	67	68	69	70	71
5	72	73	74	75	76	77	78	79	80	81	82	83
6	84	85	86	87	88	89	90	91	92	93	94	95
7	96	97	98	99	100	101	102	103	104	105	106	107
8	108	109	110	111	112	113	114	115	116	117	118	119
9	120	121	122	123	124	125	126	127				



# Try this

```
1 use_synth :fm
2 2.times do
3   play :c4
4   sleep 0.5
5   play :d4
6   sleep 0.5
7   play :e4
8   sleep 0.5
9   play :c4
10  sleep 0.5
11 end
```



# Sonic Pi Worksheet