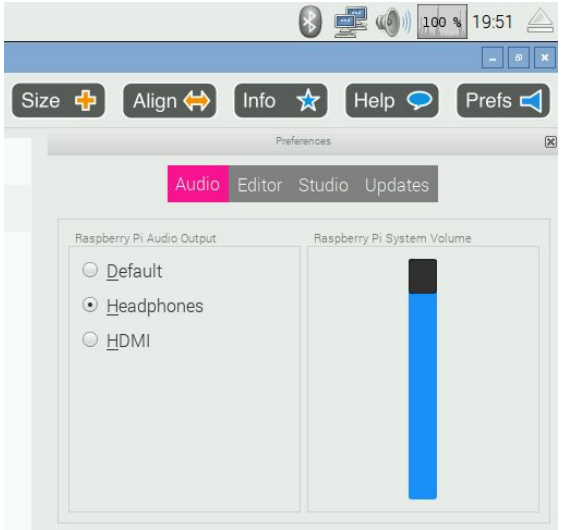
Sonic Pi

Run and setup Sonic Pi

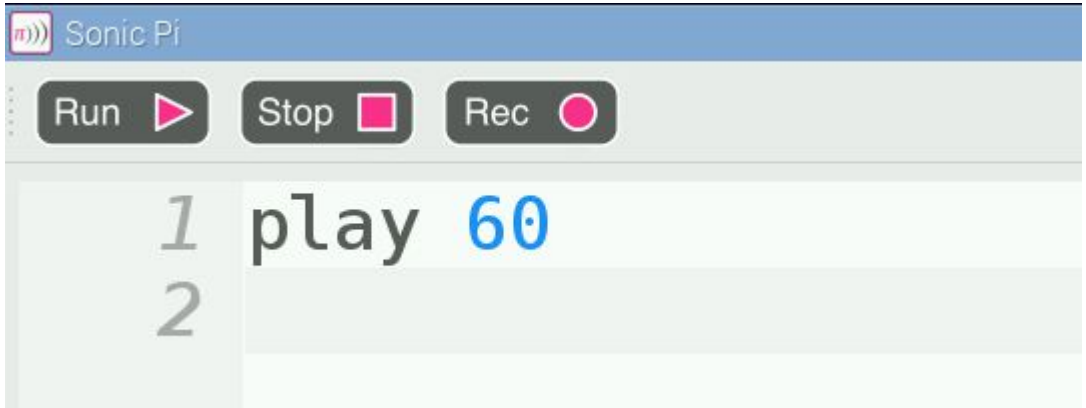
- Connect the speakers to your Raspberry Pi (USB for power and 3.5mm jack)
- Click Menu > Programming > Sonic Pi
- In the IDE click Prefs, on the right hand side, select the headphones port and move the volume slider to maximum then click on Prefs to close the window.



Your First Note

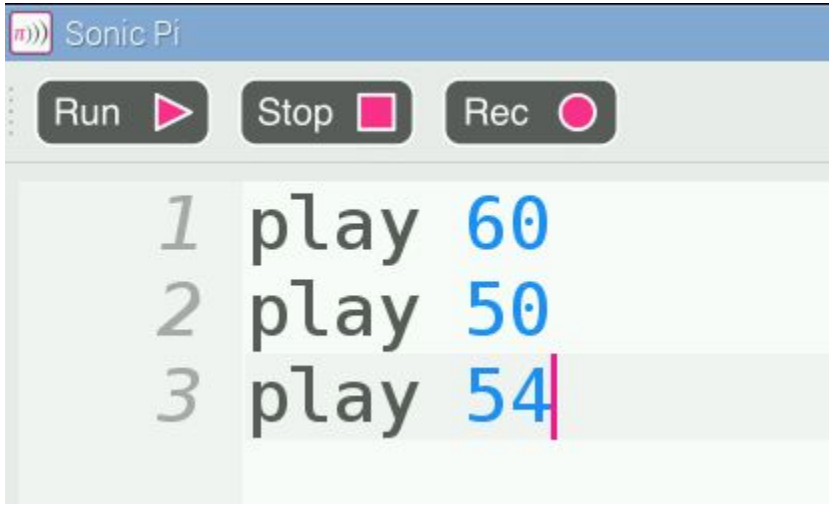
- In the IDE you have 10 buffers (windows) you can type your code in

- Type the following into Buffer0 and then Click Run

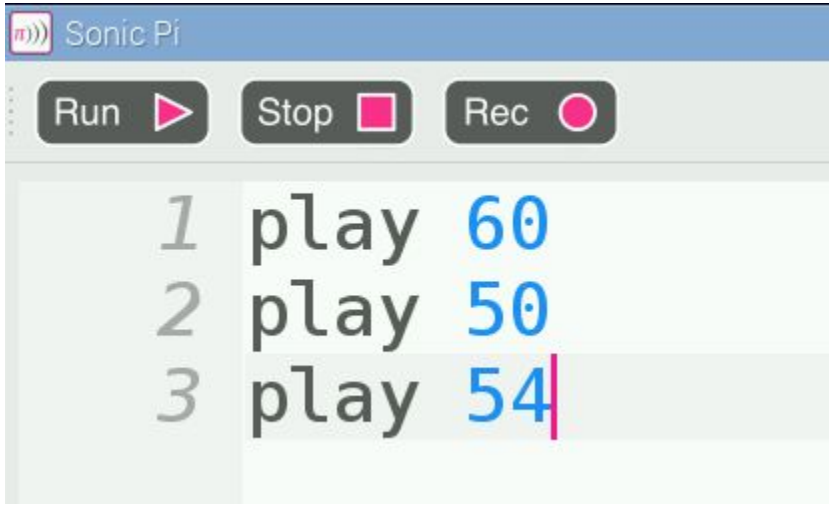


Multiple Notes

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

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

```
use_synth :fm
2.times do
  play :c4
  sleep 0.5
  play :d4
  sleep 0.5
  play :e4
  sleep 0.5
  play :c4
  sleep 0.5
end
```

Sonic Pi Worksheet