

Project 13. Test Suites

Simplified Text Representation :

Start of Project

|— Start Block --> {ID: 1614725801114, Position: (0.00, 0.00), Heading: 0°, Color: -10, Shade: 50, Pen Size: 5, Grey: 100.00}

```
| |— EmptyHeap
| |— Meter
| | |— Divide Block --> 1/4 = 0.25
| |— Store Variable "box1" → 1
| |— Do action --> "Music Tests 1"
| |— Do action --> "Music Tests 2"
| |— Do action --> "Music Tests 3"
| |— Do action --> "Music Tests 4"
| |— Do action --> "Maths Tests"
| |— Do action --> "Graphics Tests"
| |— ShowHeap
| |— SaveHeap
| | |— "test-results.json"
|
|— Setxy
| |— Note
| | |— Action: "Graphics Tests"
| | | |— "Graphics Tests"
| | |
| | |— Duration --> 1/4 = 0.25
| | |— Pitch --> Solfege: sol, Octave: 4
| | |— Print: ""
| | | |— "Graphics Tests"
|— Set Heading → 0°
|— DoArg
| |— "test xyh"
|— Move Forward → 100 Steps
|— Draw Arc --> Angle: ?°, Radius: 100
|— DoArg
| |— "test xyh"
|— Setpensize
|— Setcolor
|— Move Forward → 100 Steps
|— Move Backward → 50 Steps
|— DoArg
| |— "compare test"
| |— getred: 100
|— Setxy
|— Set Heading → 0°
|— x: 100
|— equal: true
| |— and: true
| | |— and: true
| | | |— Ifthenelse
| | | |— Action: "test xyh"
```

```

| | | | | | — "test xyh"
| | | | | | — Do action --> "passed"
| | | | | | — Do action --> "failed"
| | — equal: true
| | | — Arg
| | — heading: 90
| — equal: true
| | — Arg
| — y: 200
| — Arg
| — Print: ""
| — Play Drum → clap
| | — Note
| | | — Action: "passed"
| | | | — "passed"
| | | — Duration --> 1/4 = 0.25
| — Push
| | — Add --> ? + ? = ?
| | | — "Test "
| | — Add --> ? + ? = ?
| | | — Variable: "box1"
| | | — " passed"
| — Increment Variable: "box1"
| | — Variable: "box1"
| — Add --> ? + ? = ?
| | — "Passed Test "
| — Variable: "box1"
| — Print: ""
| — Play Drum → gong
| | — Note
| | | — Action: "failed"
| | | | — "failed"
| | | — Duration --> 1/1 = 1.00
| — Push
| | — Add --> ? + ? = ?
| | | — "Test "
| | — Add --> ? + ? = ?
| | | — Variable: "box1"
| | | — " failed"
| — Increment Variable: "box1"
| | — Variable: "box1"
| — Add --> ? + ? = ?
| | — "Failed Test "
| — Variable: "box1"
| — Action: "compare test"
| — "compare test"
| — Ifthenelse
| | — equal: true
| | | — Arg
| | — Arg

```

```

|   |   |— Do action --> "passed"
|   |   |— Do action --> "failed"
|
|— Action: "Maths Tests"
|   |— "Maths Tests"
|   |— Note
|   |   |— Duration --> 1/4 = 0.25
|   |   |— Pitch --> Solfege: sol, Octave: 4
|   |   |— Print: ""
|   |   |   |— "Maths Tests"
|   |— Setxy
|   |— DoArg
|   |   |— "compare test"
|   |   |— Distance
|   |   |   |— x: 100
|   |   |   |— y: 0
|   |— DoArg
|   |   |— "compare test"
|   |   |— Abs
|   |— DoArg
|   |   |— "compare test"
|   |   |— Sqrt
|   |— DoArg
|   |   |— "compare test"
|   |   |— Power
|   |— DoArg
|   |   |— "compare test"
|   |   |— Mod
|   |— DoArg
|   |   |— "compare test"
|   |   |— Int
|   |— DoArg
|   |   |— "compare test"
|   |   |— Int
|   |   |— "4"
|
|— Note
|   |— Action: "Music Tests 1"
|   |   |— "Music Tests 1"
|   |
|   |— Duration --> 1/4 = 0.25
|   |— Pitch --> Solfege: sol, Octave: 4
|   |— Print: ""
|   |   |— "Music Tests 1"
|   |— DoArg
|   |   |— "compare test"
|   |   |— mypitch: 7
|   |— Note
|   |   |— Duration --> 1/4 = 0.25
|   |   |— Pitch --> Solfege: sol, Octave: 4
|   |— DoArg
|   |   |— "compare test"
|   |   |— mynotevalue: 0.25

```

```

|   |— Divide Block --> 1/4 = 0.25
|— Note
|   |— Duration --> 1/4 = 0.25
|   |— Pitch --> Solfege: ?, Octave: 4
|   |   |— notename: G
|— Note
|   |— Duration --> 1/4 = 0.25
|   |— Steppitch
|— DoArg
|   |— "compare test"
|   |— mypitch: 9
|— Note
|   |— Duration --> 1/4 = 0.25
|   |— Pitchnumber
|— DoArg
|   |— "compare test"
|   |— mypitch: 7
|— Note
|   |— Duration --> 1/4 = 0.25
|   |— Nthmodalpitch
|— DoArg
|   |— "compare test"
|   |— mypitch: 9
|— Note
|   |— Duration --> 1/4 = 0.25
|   |— Pitch --> Solfege: 1a, Octave: 4
|— Note
|   |— Duration --> 1/4 = 0.25
|   |— Pitch --> Solfege: sol, Octave: 4
|— DoArg
|   |— "compare test"
|   |— delpitch2: -1
|— Note
|   |— Duration --> 1/4 = 0.25
|   |— Hertz
|— DoArg
|   |— "compare test"
|   |— mypitch: 7
|— Note
|   |— Duration --> 1/4 = 0.25
|   |— Hertz
|— DoArg
|   |— "compare test"
|   |— Int
|   |— Add --> ? + 0.5 = ?
|   |   |— outputtools: pitch in hertz
|   |   |— currentpitch: G4
|— Setpitchnumberoffset
|   |— notename: C
|— DoArg
|   |— "compare test"
|   |— Number2pitch
|   |— notename: G

```

```

|— Rhythmicdot2
|   |— Note
|       |— Duration --> 1/4 = 0.25
|       |— Pitch --> Solfege: sol, Octave: 4
|— DoArg
|   |— "compare test"
|   |— mynotevalue: 0.375
|— Multiplybeatfactor
|   |— Divide Block --> 1/2 = 0.50
|   |— Note
|       |— Duration --> 1/4 = 0.25
|       |— Pitch --> Solfege: sol, Octave: 4
|— DoArg
|   |— "compare test"
|   |— mynotevalue: 0.125
|— Setbpm3
|   |— Divide Block --> 1/4 = 0.25
|— Osctime
|   |— Divide Block --> 1000/? = ?
|   |— Divide Block --> 3/2 = 1.50
|   |— Hertz
|— DoArg
|   |— "compare test"
|   |— mynotevalue: 0.25
|— Action: "Music Tests 2"
|   |— "Music Tests 2"
|   |— Note
|       |— Duration --> 1/4 = 0.25
|       |— Pitch --> Solfege: sol, Octave: 4
|       |— Print: ""
|           |— "Music Tests 2"
|   |— Store Variable "box" → ?
|   |   |— Elapsednotes2
|   |   |— Divide Block --> 1/4 = 0.25
|   |— Repeat (4) Times
|       |— Note
|           |— Duration --> 1/4 = 0.25
|           |— Pitch --> Solfege: sol, Octave: 4
|   |— DoArg
|       |— "compare test"
|       |— Minus
|           |— Elapsednotes2
|           |— Divide Block --> 1/4 = 0.25
|       |— Variable: "box"
|   |— Store Variable "box2" → ?
|       |— Int
|       |— beatvalue: 2.0060000000000002
|   |— Repeat (4) Times
|       |— Note
|           |— Duration --> 1/4 = 0.25
|           |— Play Drum → kick drum
|           |— Print: ""
|               |— Add --> ? + ? = ?

```

```
| | | | | Variable: "box2"
```

```
| | | | | Add --> ? + ? = ?
```

```
| | | | | " "
```

```
| | | | | Int
```

```
| | | | | beatvalue: 2.006000000000000002
```

```
| | | Increment Variable: "box2"
```

```
| | | Variable: "box2"
```

```
| DoArg
```

```
| | "compare test"
```

```
| | Int
```

```
| | beatvalue: 2.006000000000000002
```

```
| | Int
```

```
| | Mod
```

```
| | | Variable: "box2"
```

```
| DoArg
```

```
| | "compare test"
```

```
| | Hspace
```

```
| | Notecounter
```

```
| | Do action --> "whole note"
```

```
| Note
```

```
| | Action: "whole note"
```

```
| | | "whole note"
```

```
| | Duration --> 1/1 = 1.00
```

```
| | Rest2
```

```
| Action: "Music Tests 3"
```

```
| | "Music Tests 3"
```

```
| | Setscalartransposition
```

```
| | | Add --> 1 + ? = ?
```

```
| | | Multiply
```

```
| | | | modelength: 7
```

```
| | | Note
```

```
| | | | Duration --> 1/4 = 0.25
```

```
| | | | Pitch --> Solfege: sol, Octave: 4
```

```
| | | | Print: ""
```

```
| | | | "Music Tests 3"
```

```
| | Store Variable "box" -> ?
```

```
| | | outputtools: pitch class
```

```
| | | currentpitch: A4
```

```
| | DoArg
```

```
| | | "compare test"
```

```
| | | Variable: "box"
```

```
| Neighbor2
```

```
| | Newstaccato
```

```
| | | Newslur
```

```
| | | | Chorus
```

```
| | | | Vibrato
```

```
| | | | Tremolo
```

```
| | | | Phaser
```

```
| | | | Harmonic2
```

```
| | | | Dis
```

```

| | | | | | | | | | | Print: ""
| | | | | | | | | | | — Action: "Music Tests 4"
| | | | | | | | | | |   | — "Music Tests 4"
| | | | | | | | | | | 
| | | | | | | | | | | — "Tone and Ornament Tests"
| | | | | | | | | | | — Note
| | | | | | | | | | |   | — Duration --> 1/4 = 0.25
| | | | | | | | | | |   | — Note
| | | | | | | | | | |     | — Duration --> 1/4 = 0.25
| | | | | | | | | | |     | — Pitch --> Solfege: sol,
Octave: 4
| | | | | | | | | | |   | — Pitch --> Solfege: sol, Octave:
4
| | | | | | | | | | | — Note
| | | | | | | | | | |   | — Duration --> 1/4 = 0.25
| | | | | | | | | | |   | — Pitch --> Solfege: sol, Octave: 4
| | | | | | | | | | | — Note
| | | | | | | | | | |   | — Duration --> 1/4 = 0.25
| | | | | | | | | | |   | — Pitch --> Solfege: sol, Octave: 4
| | | | | | | | | | | — Note
| | | | | | | | | | |   | — Duration --> 1/4 = 0.25
| | | | | | | | | | |   | — Pitch --> Solfege: sol, Octave: 4
| | | | | | | | | | | — Divide Block --> 1/16 = 0.06
| | | | | | | | | | | — Note
| | | | | | | | | | |   | — Duration --> 1/4 = 0.25
| | | | | | | | | | |   | — Pitch --> Solfege: sol, Octave: 4
| | | | | | | | | | | — Note
| | | | | | | | | | |   | — Duration --> 1/4 = 0.25
| | | | | | | | | | |   | — Pitch --> Solfege: sol, Octave: 4
| | | | | | | | | | | — Divide Block --> 1/16 = 0.06
| | | | | | | | | | | — Note
| | | | | | | | | | |   | — Duration --> 1/4 = 0.25
| | | | | | | | | | |   | — Pitch --> Solfege: sol, Octave: 4
| | | | | | | | | | | — Note
| | | | | | | | | | |   | — Duration --> 1/4 = 0.25
| | | | | | | | | | |   | — Pitch --> Solfege: sol, Octave: 4
| | | | | | | | | | | — Divide Block --> 1/32 = 0.03
| | | | | | | | | | | — Note
| | | | | | | | | | |   | — Duration --> 1/4 = 0.25
| | | | | | | | | | |   | — Pitch --> Solfege: sol, Octave: 4
| | | | | | | | | | | — Divide Block --> 1/16 = 0.06
| | | | | | | | | | | — Note
| | | | | | | | | | |   | — Duration --> 1/4 = 0.25
| | | | | | | | | | |   | — Pitch --> Solfege: sol, Octave: 4
| | | | | | | | | | | — Neighbor
| | | | | | | | | | | — Divide Block --> 1/16 = 0.06
| | | | | | | | | | | — Note
| | | | | | | | | | |   | — Duration --> 1/4 = 0.25
| | | | | | | | | | |   | — Pitch --> Solfege: sol, Octave: 4
| | | | | | | | | | | — nameddoArg: compare test

```