## Project 10. 5 EDO using ensemble blocks

## Simplified Text Representation :

```
Start of Project
├── Start Block --> {ID: 1713408573598, Position: (-600.00, 0.00), Heading:
0°, Color: -10, Shade: 60, Pen Size: 5, Grey: 100.00}
   ├── Store Variable "box1" → 1
   Pen Up (Lifts Pen from Canvas)
   ├─ Setxy
   ├── Do action --> "prompt"
   ├─ Repeat (?) Times
      ├─ Variable: "box2"
      ├─ Do action --> "set"
       ├─ Do action --> "preview"
      ── Do action --> "next"
   ├─ Setxy
     — Turtleshell
   │ ├─ media: data
   - Listen
      ├─ myclick: click1713408573598
       ├─ "play all"
Newturtle
   ├─ Action: "set"
   ├─ Variable: "box1"
├─ Wait
 - Setturtle
   |— Int
   ├─ Variable: "box1"
   Pen Up (Lifts Pen from Canvas)
   ├ Listen
      ├─ "play"
 Setxyturtle
   ├─ Int
   ├─ Variable: "box1"
   → x: -123.60679774997914
   — y: −380.42260651806146
 - Draw Arc --> Angle: ?°, Radius: 400
  - Action: "next"
   | |--- "next"
   ─ Divide Block --> 360/? = ?
   ├─ Variable: "box2"
 — Increment Variable: "box1"
   ├─ Variable: "box1"
- Note
  Settimbre
  │ ├─ Drift
```

```
Action: "play"
            ├─ "play"
       — voicename: piano
    — Duration --> 1/4 = 0.25
    — Hertz
       Multiply
       - Power
       ── Divide Block --> ?/? = ?
         ├─ Int
         — turtlename: 5
      ├─ Variable: "box2"
  - Print: ""
   ├─ Add --> ? + ? = ?
      ├─ "Pitch in hertz: "
    — Add --> ? + ? = ?
      ├─ Int
       - outputtools: pitch in hertz
       — currentpitch: C6
    - Add --> ? + ? = ?
     " and its nearest pitch is "
   outputtools: alphabet
   — currentpitch: C6
 — " equal divisions of the octave."
  - Add --> ? + ? = ?
   ├─ Add --> ? + ? = ?
      ├─ Print: ""
          ├─ Wait
             ├ Input
                    — Print: ""
                        - Action: "prompt"
                          - "prompt"
                       - "Choose how many equal divisions of the
octave you would like."
         | | | | "Input a value"
                inputvalue: 5
       — "You are in a temperament system of "
   ├─ Variable: "box2"
 — Action: "preview"
   - "preview"
   Settimbre
      — voicename: piano
        - Note
          — Duration --> 1/4 = 0.25
          ├── Pitch --> Solfege: do, Octave: 2
          - Hertz
             ├─ Multiply
                — outputtools: pitch in hertz
               — Power
```

```
- Action: "play all"
  ├─ "play all"
   — Store Variable "box1" → 1
   ├─ Repeat (?) Times
      ├── Variable: "box2"
      ─ Do action --> "preview"
      ├─ Increment Variable: "box1"
       ├─ Variable: "box1"
- Start Block --> {ID: 1713414131106, Position: (-400.00, 0.00), Heading:
0°, Color: -10, Shade: 60, Pen Size: 5, Grey: 100.00}
├── Setturtlename2
   | |-- "1"
├── Start Block --> {ID: 1713414133449, Position: (-123.61, 380.42),
Heading: 0°, Color: -10, Shade: 60, Pen Size: 5, Grey: 100.00}
| |-- "2"
├── Start Block --> {ID: 1713414135421, Position: (323.61, 235.11),
Heading: 0°, Color: -10, Shade: 60, Pen Size: 5, Grey: 100.00}
├── Setturtlename2
  | |-- "3"
├── Start Block --> {ID: 1713414137420, Position: (323.61, -235.11),
Heading: 0°, Color: -10, Shade: 60, Pen Size: 5, Grey: 100.00}
├── Setturtlename2
  | |-- "4"
├── Start Block --> {ID: 1713414139382, Position: (-123.61, -380.42),
Heading: 0°, Color: -10, Shade: 60, Pen Size: 5, Grey: 100.00}
├── Setturtlename2
```