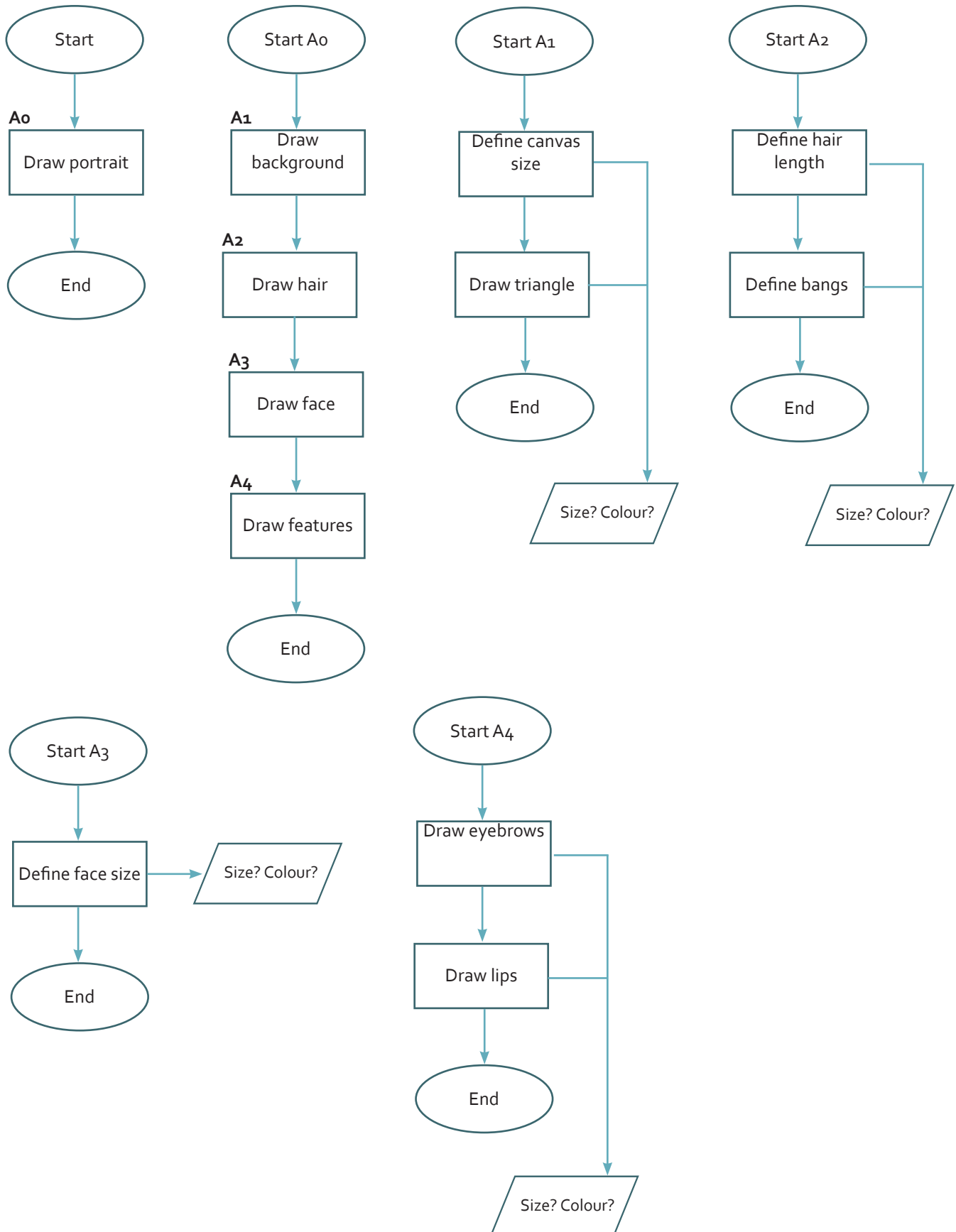


PROGRAMMING FOR DESIGN - PROJECT 1

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1.FLOWCHARTS



2. PSEUDO-CODE

A1: START draw background function

Accept canvas size (400, 400)

Accept triangle size (400, 400, 0, 0, 0, 400)

FILL triangle with colour (255, 188, 171)

End

A2: START draw hair function

Accept rectangle size for hair (110, 100, 180, 250, 80, 80, 5, 5)

FILL rectangle with colour (38, 24, 5)

Accept rectangle size for bangs (105, 100, 190, 100, 100, 100, 10, 10)

FILL rectangle with colour (38, 24, 5)

End

A3: START draw face function

Accept ellipse size for face (200,200,180,200)

FILL ellipse with colour (214, 133, 99)

End

A4: START draw features function

For left eyebrow,

Set STROKEWEIGHT to 6

Set STROKE colour (38, 24, 5)

Add line (150, 200, 180, 205)

Add another line(140, 205, 200, 185)

For right eyebrow,

Add line(250, 200, 220, 205)

Add another line(260, 205, 250, 200)

For lips,

Add NOSTROKE

FILL with colour (242, 149, 126)

Accept ellipse size (200,260,50,20)

Set STROKEWEIGHT to 2

Set STROKE colour (38, 24, 5)

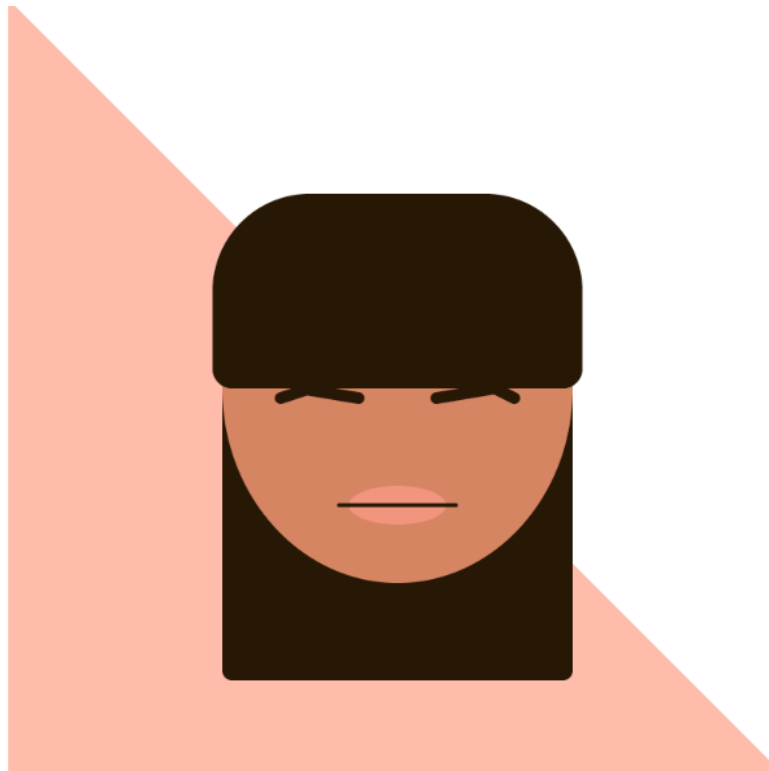
Add line (230, 260, 170, 260)

End

3. HTML

```
<!DOCTYPE html>
<html>
  <head>
    <script src="https://cdn.jsdelivr.net/npm/p5@1.1.9/lib/p5.js"></script>
  </head>
  <body>
    <script src="sketch.js"></script>
  </body>
</html>
```

Preview -



4. JAVASCRIPT

```
function setup() {  
  createCanvas(400, 400);  
}  
  
function draw() {  
  //background  
  background(400);  
  //triangle  
  noStroke();  
  fill(255, 188, 171);  
  triangle(400, 400, 0, 0, 0, 400);  
  
  //hair  
  fill(38, 24, 5)  
  rect(110, 100, 180, 250, 80, 80, 5, 5);  
  noStroke();  
  
  //face  
  fill(214, 133, 99);  
  ellipse(200, 200, 180, 200);  
  
  //bangs  
  fill(38, 24, 5)  
  rect(105, 100, 190, 100, 100, 100, 10, 10);  
  
  //left eyebrow  
  strokeWeight(6)  
  stroke(38, 24, 5)  
  line(150, 200, 180, 205);  
  line(140, 205, 200, 185);  
  
  //right eyebrow  
  line(250, 200, 220, 205);  
  line(260, 205, 250, 200);  
  
  //lips  
  noStroke();  
  fill(242, 149, 126);  
  ellipse(200, 260, 50, 20);  
  strokeWeight(2);  
  stroke(38, 24, 5);  
  line(230, 260, 170, 260);  
}
```

