**Programming Assessment 2 Portrait Code**

**U3197494**

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**Portrait\_u3197494.html code**

<html>

<head>

<script src="https://cdnjs.cloudflare.com/ajax/libs/p5.js/0.9.0/p5.js"></script>

<script src="Portrait\_Code\_u3197494.js"></script>

</head>

<body>

</body>

</html>

**Portrait\_Code\_u3197494.js Code**

function setup(){

createCanvas(1000,1000);

}

function draw(){

background (30,144,255);

stroke(1);

fill(255,224,189)

rect(400,700,200,200)

// Neck coloured skin colour

stroke(1)

fill(230);

rect (400,780,200,400);

// Jacket light gray shirt front center

stroke(1)

fill(75, 83, 32);

rect (225,780,250,400);

// Jacket green front left side

stroke(1)

fill(75, 83, 32);

rect (535,780,250,400);

// Jacket green front right side

stroke(1)

fill(255,224,189);

ellipse (325,460,80,130);

// Left Ear filled with skin colour

stroke(1)

fill(245,219,172);

ellipse (325,460,61.5,100);

// Left Inner Ear filled with a slightly darker skin colour

stroke(1)

fill(255,224,189);

ellipse (675,460,80,130);

// right Ear filled with skin colour

stroke(1)

fill(245,219,172);

ellipse (675,460,61.5,100);

// Right Inner Ear filled with a slightly darker skin colour

stroke(1)

fill(255,224,189);

ellipse (500,500,375,500);

// Head egg shape filled with a skin colour

stroke(1)

fill(70)

ellipse(500,300,355,130)

rect(325,315,360,50)

//Hat

fill(40);

ellipse (570,420,75,50);

ellipse (430,420,75,50);

// Eye shadow set to black

fill(255);

ellipse (430,420,75,50);

ellipse (570,420,75,50);

// Whites of eyes

fill(0,100,0);

ellipse (430,420,35,35);

ellipse (570,420,35,35);

// Eye Colour green

fill(20);

ellipse (430,420,25,25);

ellipse (570,420,25,25);

// Blacks of eye

noFill();

strokeWeight(1);

beginShape();

vertex(521,455);

quadraticVertex(510,480,518,525);

endShape();

/\*

Right side Nose Length Curve

Top point of curve x521, y455

Bottom point of curve x518, y525

Curve point of curve x510, y480

\*/

noFill();

strokeWeight(1);

beginShape();

vertex(525,510);

quadraticVertex(520,525,530,530);

endShape();

/\* Right side of Nose start of nostral curve P1

Top point of curve 525, 510

Bottom point of curve 535, 530

Curve point of curve 525, 520

\*/

noFill();

strokeWeight(1);

beginShape();

vertex(530,530);

quadraticVertex(538,543,525,550);

endShape();

/\* Right Nostral curve P2

Top point of curve 535, 530

Bottom point of curve 525, 550

Curve point of curve 540, 545

\*/

noFill();

strokeWeight(1);

beginShape();

vertex(525,550);

quadraticVertex(521,554,520,560);

endShape();

/\* Right Nostral curve P3

Top point of curve 525,550

Bottom point of curve 515, 560

Curve point of curve 519, 552

\*/

strokeWeight(1);

beginShape();

vertex(517,550);

quadraticVertex(507,554,504,560);

vertex(507,560);

quadraticVertex(522,552,517,550);

endShape();

// Right Nostral hole

beginShape();

vertex(505,560);

quadraticVertex(499.5,563,492,560);

endShape();

// Tip of Nose overhang

beginShape();

vertex(492,560); // bottom point of left nostral hole

quadraticVertex(493,556,479,550); //top point of left nostral hole, angle of curve

vertex(479,550);

quadraticVertex(469,552,492,560);

endShape();

// Left Nostral hole

noFill();

strokeWeight(1);

beginShape();

vertex(479,455);

quadraticVertex(490,480,482,525);

endShape();

/\*

Left

Nose Length Curve

Top point of curve 521, 455

Bottom point of curve 518, 425

Curve point of curve 515, 465

\*/

noFill();

strokeWeight(1);

beginShape();

vertex(475,510);

quadraticVertex(477,526,467,530);

endShape();

/\* Left side of Nose start of nostral curve P1

Top point of curve 475, 510

Bottom point of curve 465, 530

Curve point of curve 480, 520

\*/

noFill();

strokeWeight(1);

beginShape();

vertex(467,530);

quadraticVertex(460,538,465,550);

endShape();

/\*

Left Side of Nose P2 curve

Top of point 465,530

Bottom point of curve 465,550

Curve point of curve 452,545

\*/

noFill();

strokeWeight(1);

beginShape();

vertex(465,550);

quadraticVertex(471,552,475,560);

endShape();

/\*

Left Side of Nose P3 curve

Top of point 465,550

Bottom point of curve 475,560

Curve point of curve 471,552

\*/

noFill();

strokeWeight(1);

beginShape();

vertex(511,540);

quadraticVertex(500,537,488,540);

endShape();

/\*

Nose curve above nostral holes

Left Side of Nose P3 curve

Top of point 511,540

Bottom point of curve 488,540

Curve point of curve 500,537

\*/

noFill();

strokeWeight(1.5);

beginShape();

vertex(580,625);

quadraticVertex(500,537,420,625);

endShape();

/\* Mouth

Start point x 580, y 625

End point x 420, y 625

Curve point x 500, y 537

\*/

/\* Creating a custom curved line to create the shape of the nose

The use of the following website was used to help explain how to do this

https://programmingdesignsystems.com/shape/custom-shapes/index.html#custom-shapes-pANLh0l

\*/

}