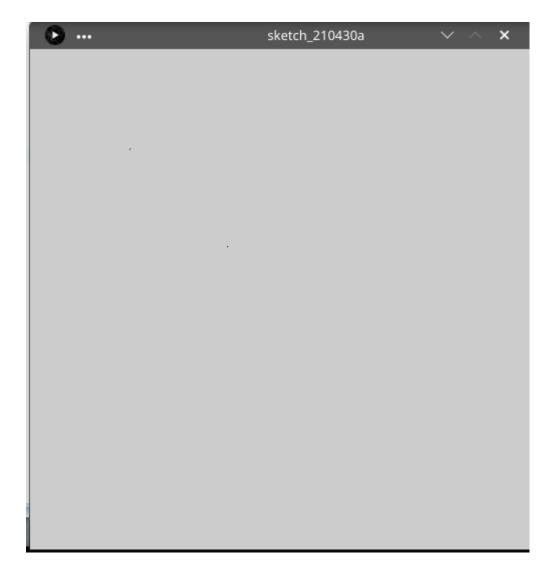
- Job Fernandez 19BCD7154

Write programs to implement the following 3D shapes and their transformations- 1. point 2. line 3. cube 4. cuboid 5. sphere

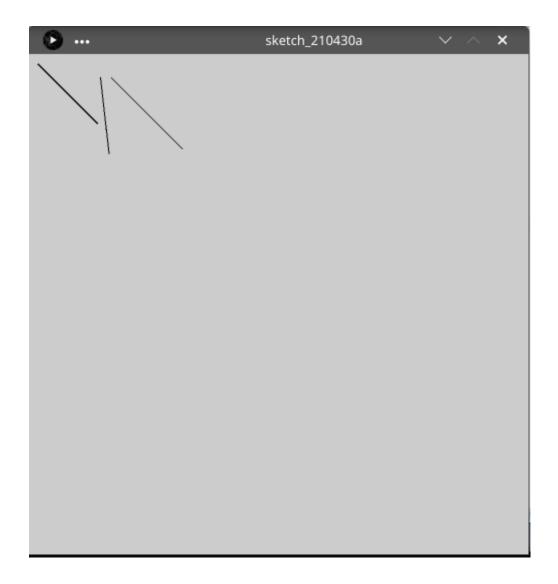
1. Point

```
void setup () {
    size(500,500,P3D);
    noLoop();
}
void draw(){
    point(100,100);
    translate(100,100,20);
    point(100,100);
}
```



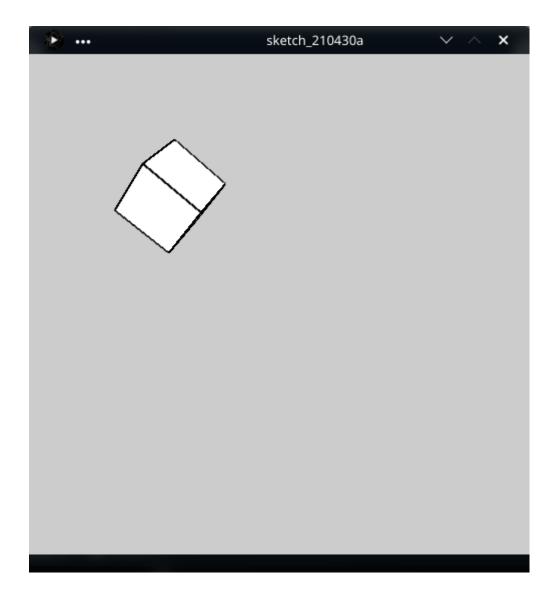
2. Line

```
void setup () {
    size(500,500,P3D);
    noLoop();
}
void draw(){
    line(10,10,70,70);
    translate(100,50,70);
    line(10,10,70,70);
    rotateX(PI/6);
    rotateZ(PI/6);
    line(10,10,70,70);
}
```



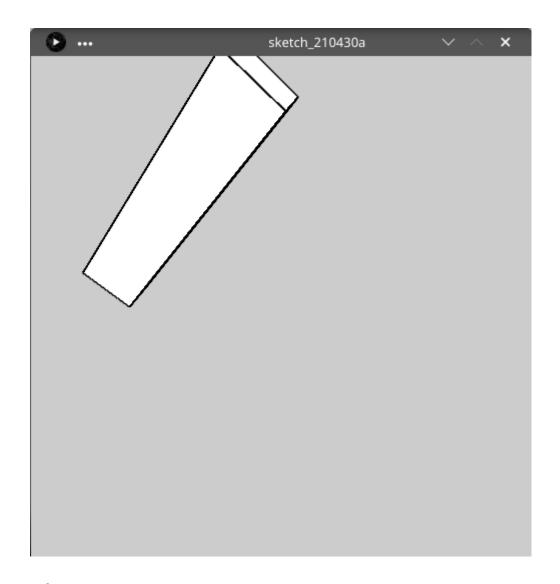
3. Cube

```
void setup () {
  size(500,500,P3D);
  noLoop();
}
void draw(){
  translate(150,150,30);
  rotateY(PI/4);
  rotateX(PI/6);
  rotateZ(PI/4);
  scale(2);
  box(30);
}
```



4. Cuboid

```
void setup () {
  size(500,500,P3D);
  noLoop();
}
void draw(){
  translate(150,150,30);
  rotateY(PI/4);
  rotateZ(PI/6);
  rotateZ(PI/4);
  scale(2);
  box(30,20,140);
}
```



5. Sphere

```
void setup () {
  size(500,500,P3D);
  noLoop();
}
void draw(){
  translate(150,150,30);
  rotateY(PI/4);
  rotateX(PI/6);
  rotateZ(PI/4);
  scale(2);
  sphere(30);
}
```

