quiz7.md 17/09/2021

```
PVector[] particles = new PVector[10];
void setup() {
size(500, 500);
createDots();
void draw() {
// reset the page
background(220);
// stores the mouse position
PVector mousePos = new PVector(mouseX, mouseY);
// loops through each circles position
for (PVector currentPos : particles) {
    // half of the diamater of each circle so 50+12.5
    // if the muse is close enough
    if(PVector.dist(mousePos, currentPos) < 65.5){</pre>
      fill(255, 0, 0);
     stroke(255, 0, 0);
      fill(0);
      stroke(0);
    circle(currentPos.x, currentPos.y, 25);
// draw mouse cirlce
stroke(150);
strokeWeight(1);
noFill();
circle(mousePos.x, mousePos.y, 100);
void mouseClicked() {
createDots();
// add new dots in random positions to the array
void createDots(){
for(int i = 0; i < particles.length; i++){</pre>
particles[i] = new PVector(random(500), random(500));
```