Mita was excited to start her new job as a software engineer at a tech startup. She was given a task to develop a feature for the company's app. However, after finishing her code, her senior found several code smells. She spent time researching and learning about best coding practices, and how to eliminate code smells. Lastly, she worked on refactoring her code.

- 1. Write down any code smells that may have caught the attention of Mita's boss [2]
- 2. Refactor the program as needed [4]
- 3. What is the purpose of refactoring

[4]

```
//calculating the Surface of Cylinder with the
public class Calculator {
                                                        radius and height
  //calculating the perimeter of Circle with the
                                                          public double calCSA(double r, double h) {
radius
                                                          double pi = 3.14;
  public double calPC(double r) {
                                                          double result= (2 * pi * r * h) + (2 * pi * r * r);
  double pi = 3.14;
                                                          return result;
  double result = 2 * pi * r;
                                                        }
  return result;
                                                         //calculating the Surface area of Cone with the
   //calculating the Area of Sphere with the radius
                                                        radius and height
  public double calSSA(double r) {
                                                          public double calCSA(double r, double h, int v, int
  double pi = 3.14;
  double result= 4 * pi * r * r;
                                                        t, int g) {
                                                          double pi = 3.14;
  return result;
                                                          double s = Math.sqrt((r * r) + (h * h));
                                                          double result= pi * r * s + pi * r * r;
                                                          return result;
                                                        }
```