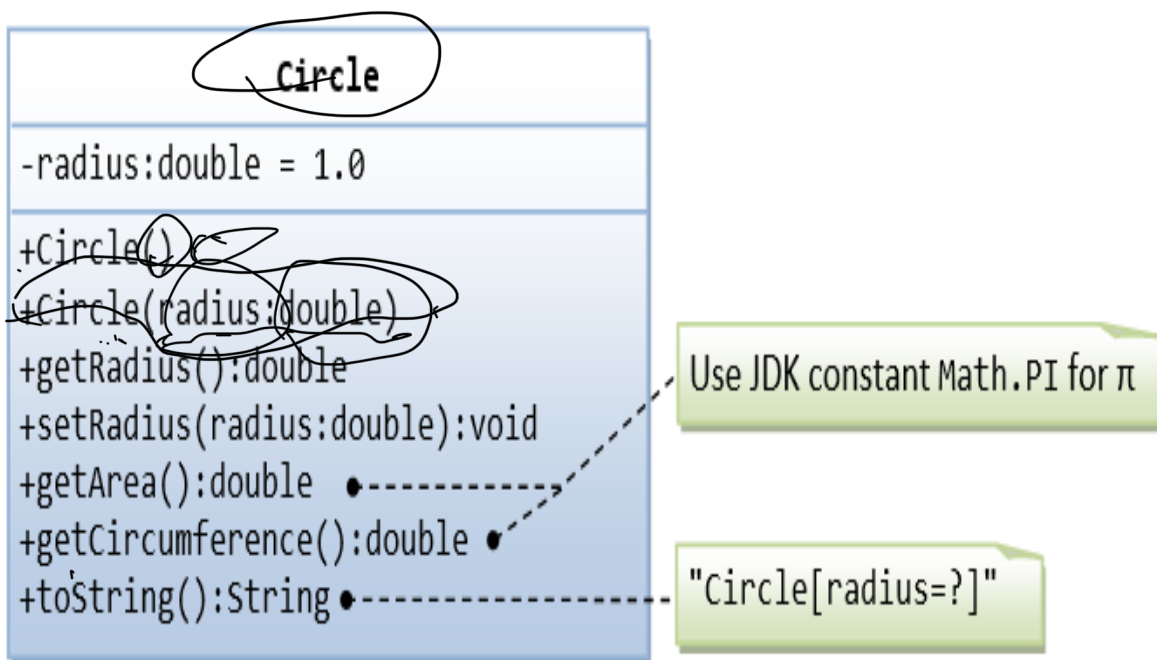


COLLEGE OF ENGINEERING AND
ARCHITECTURE

ACADEMIC YEAR 2022-2023
FALL SEMESTER

COURSE : CIS 104

Lab 2
Object / Class



A class called **circle** is designed as shown in the following class diagram. It contains:

- A private instance variable: radius (of the type double) with a default value of 1.0
- Two *overloaded* constructors - a *default* constructor with no argument, and a constructor which takes a double argument for radius.
- A public method **setRadius** for changing the radius of a Circle instance.
- Two public methods: **getRadius()** and **getArea()**, which return the radius and area of this instance, respectively.
- A public method **getCircumference** which returns the circumference
- A public method called **toString()** that returns a description of the instance (in the return type of String)
 1. Write in Java the class Circle
 2. Write in Java a Test Driver to test your Circle class.