## ANDROID CIRCLE

LEVEL: JAVA AHMED RADWAN

WEEK 2

## 1. What are access modifiers? and Types of Access Modifiers.

- Access Modifiers in java are special keywords by them we can determine the accessibility of an class, method\_or an attribute.
- Types of Access Modifiers : Public , Private ,
   Protected , Default.
- Public: It can be accessed (class, method or attribute) from everywhere (class or package).

- Private: It can only be accessed (class, method or attribute) within its class.
- Protected: It can be accessed (class, method or attribute) within its package or another package using inheritance (child class).
- Default: It is the default access modifier that given to the class, method or attribute if you did not give it any access modifiers, It can only be accessed ( class, method or attribute) within its package.

## 2. Program code

```
📭 Test 🕽 🖿 src 🕽 🥑 Test
   C Test.java × C Cylinder.java ×
          import java.util.Scanner;
          public class Test extends Cylinder {
              public Test(double r, double h) {
                  super(r, h);
              public static void main(String[] args) {
                   Scanner in = new Scanner(System.in);
                  Cylinder cylinder = new Cylinder(in.nextDouble(),in.nextDouble());
                   double circleArea = cylinder.getCircleArea();
                  double cylinderArea = cylinder.getCylinderArea();
                  double cylinderVolume = cylinder.getCylinderVolume();
                   System.out.println("Circle Area : " + circleArea );
                   System.out.println("Cylinder Area : " + cylinderArea );
                   System.out.println("Cylinder Volume : " + cylinderVolume );
           Test > main()
```

```
Test > src > Cylinder

Color Testjava × Cylinder (accordingly)

Testjava × Cylinder (a
```

## 3. Program Code

```
III Test ⟩ III src ⟩ © Test
            import java.util.Scanner;
                public static void main(String[] args) {
                    Scanner in = new Scanner(System.in);
                     int n = in.nextInt();
                    int [] array = new int[n];
                             array[i] = in.nextInt();
                         catch (Exception e){
- Z: Structure
                             System.out.println("Out of Array Index !");
```