



كلية تكنولوجيا الصناعة والطاقة



Information Technology Department
2rd Year



جامعة برج العرب التكنولوجية
BORG AL ARAB TECHNOLOGICAL UNIVERSITY

جامعة برج العرب التكنولوجية

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| Course: Semester:2 rd term 2025/2026 | Lecturers: Dr. Radwa Rady Dr. Ghada Fathy |
| Java Programming Tutorial 6 Sheet (6) | |

A) Write a Java program that:

1. Creates a class `Car` with:
 1. `brand`
 2. `speed`
 2. Create a method `increaseSpeed (int value):`
 1. Adds the value to speed.
 3. In `main():`
 1. Create an object.
 2. Set initial speed.
 3. Increase speed and print it.
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B) Write a Java program that:

1. Create a class `Person` with:
 - o `name`
 - o method `display() → prints name`
 2. Create a class `Student` that **inherits from Person**:
 - o `grade`
 3. In `main():`
 - o Create a `Student` object
 - o Assign values
 - o Call `display()` and print grade
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C) Write a Java program that:

1. Create a class `Calculator`
2. Create two methods called `add`:
 - o One takes **two integers**
 - o One takes **three integers**
3. In `main():`
 - o Call both methods and print results

D) Write a Java program that:

1. Create a class `Employee`
2. Make variable `salary` **private**
3. Create:
 - `setSalary()` method
 - `getSalary()` method
4. In `main()`:
 - Set salary
 - Print salary using getter

E) Write a Java program that:

1. Create an **abstract class** `Animal`:
 - abstract method `makeSound()`
2. Create a class `Dog` that extends `Animal`:
 - implement `makeSound()` → print "Bark"
3. In `main()`:
 - Create object of `Dog`
 - Call the method