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Daffodil International University
Faculty of Science & Information Technology
Department of Software Engineering
Course Code: SE 217; Course Title: Object Oriented Programming Lab

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Question 4: Courier Delivery Service

A courier company delivers different types of packages. Every package contains a **tracking number**, **receiver name**, and **weight (kg)**.

The company provides three delivery services:

- **StandardDelivery** – Charge = Weight × BDT 50
- **ExpressDelivery** – Charge = Weight × BDT 80 + BDT 200 service fee
- **InternationalDelivery** – Charge = Weight × BDT 150 + BDT 1,000 customs fee

Requirements

1. Create a superclass `Package`.
2. Create subclasses `StandardDelivery`, `ExpressDelivery`, and `InternationalDelivery`.
3. Override the method `calculateDeliveryCharge()`.
4. Implement a method `displayPackageInfo()`.
5. In the `main()` method:
    - Create 3 objects of each delivery type.
    - Calculate and display the delivery charge using runtime polymorphism.

Lab Evaluation Instructions

- Write the Java code in your IDE (e.g., IntelliJ IDEA, Eclipse, or NetBeans).
- Compile and run the program.
- Open a new Microsoft Word document.
- Take clear screenshots of:
    - The complete Java source code.
    - The program output.
- Paste both screenshots into the Word document and make it pdf.
- Save the document using the format: **StudentID(Last 3 digit)_Name.pdf**. [211_Mehedi.pdf]
- Upload the pdf to **BLC** before the submission deadline.