



University of Dhaka  
**Institute of Information Technology (IIT)**  
Bachelor of Science in Software Engineering (BSSE)



**Course:** SE 506 Design Patterns  
**Lab 01:** Implementation of Factory Method Pattern

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Consider a software system that needs to handle the creation of different types of *devices*—such as *Smartphone*, *Tablet*, and *Laptop*—each with distinct properties, behaviors, and mandatory *powerOn* and *powerOff* method. You must implement the **factory method pattern** to instantiate new devices.