

# FACADE

Design Pattern





#### **INTERNATIONAL ISLAMIC UNIVERSITY ISLAMABAD**

# Report

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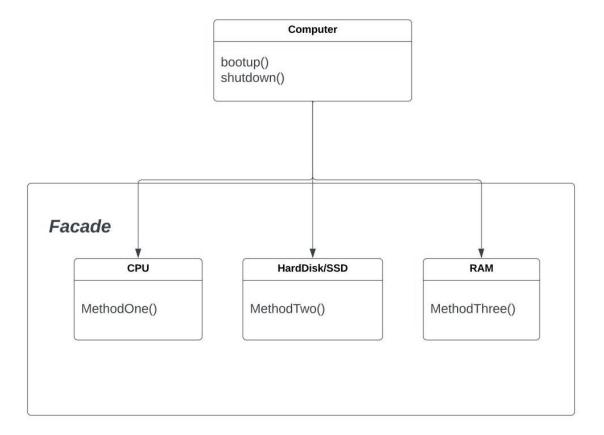
**Registration No:** 4125-FBAS/BSSE/F20

Course Code: SE322

**Course Title:** Software Design and Architecture

Submitted to: Dr. Muhammad Nasir

### **Class Diagram:**



Consider the example of a computer system that has many subsystems working inside it, i.e., CPU, Hard Disk/SSD, RAM. Design a class Computer that works as Façade and interacts with subsystems. Demonstrate the system Bootup and Shutdown.

#### **Source Code:**

```
using System;
namespace Facade_2
{
    class Program
    {
        static void Main(string[] args)
```

```
{
        Computer computer = new Computer();
        computer.Start();
        computer.Shut_Down();
        Console.ReadKey();
    }
}
public class CPU
    public void method_cpu()
        Console.WriteLine("CPU is working");
}
public class RAM
    public void method_ram()
        Console.WriteLine("RAM is working");
}
public class Disk
    public void method_Disk()
        Console.WriteLine("Disk is working");
}
public class Computer
    CPU cpu;
    RAM ram;
    Disk disk;
    public Computer()
        cpu = new CPU();
        ram = new RAM();
        disk = new Disk();
    }
    public void Start()
        Console.WriteLine("Computer is Starting-----\n");
        cpu.method_cpu();
        ram.method_ram();
        disk.method_Disk();
    }
    public void Shut_Down()
        Console.WriteLine("\nComputer is Shutting Down-----\n");
        cpu.method_cpu();
        ram.method_ram();
        disk.method_Disk();
    }
}
```

}

## **Output:**

