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# ADAPTER

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Design Pattern





**INTERNATIONAL ISLAMIC UNIVERSITY ISLAMABAD**

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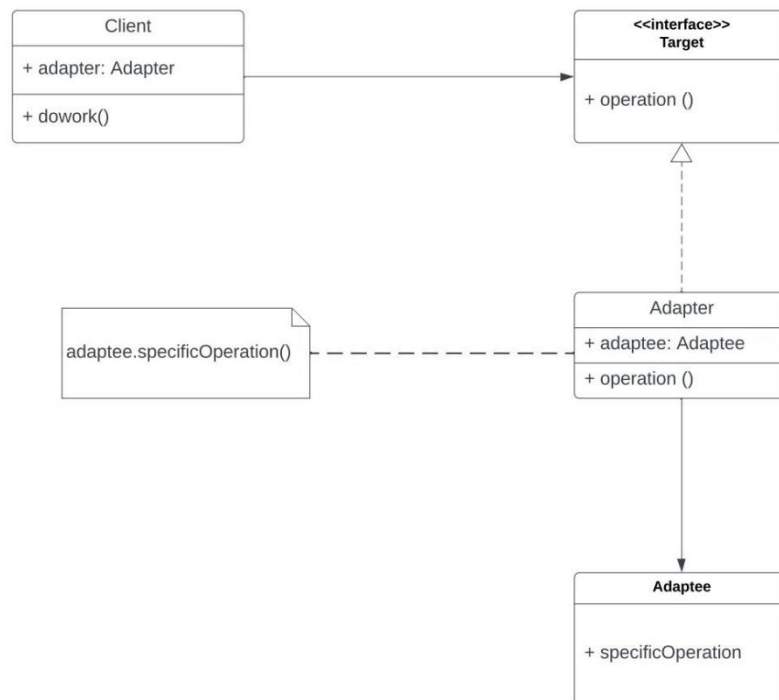
## ***Report***

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**Course Code:** SE322  
**Course Title:** Software Design and Architecture

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## Class Diagram:



Consider a real-life example of three pin to two pin power socket adapters.

## Source Code:

```
using System;

namespace Adapter.Structural
{
    /// <summary>    /// Adapter Design Pattern    /// </summary>

    public class Program
    {
        public static void Main(string[] args)
        {
            // Create adapter and place a request

            TwoSwitch target = new Adapter();
            target.Request();

            // Wait for user

            Console.ReadKey();
        }
    }

    /// <summary>    /// The 'Target' class    /// </summary>
```

```

public class TwoSwitch
{
    public virtual void Request()
    {
        Console.WriteLine("Called Two Switch Request()");
    }
}

/// <summary>    /// The 'Adapter' class    /// </summary>

public class Adapter : TwoSwitch
{
    private ThreeSwitch adaptee = new ThreeSwitch();

    public override void Request()
    {
        // Possibly do some other work        // and then call
SpecificRequest

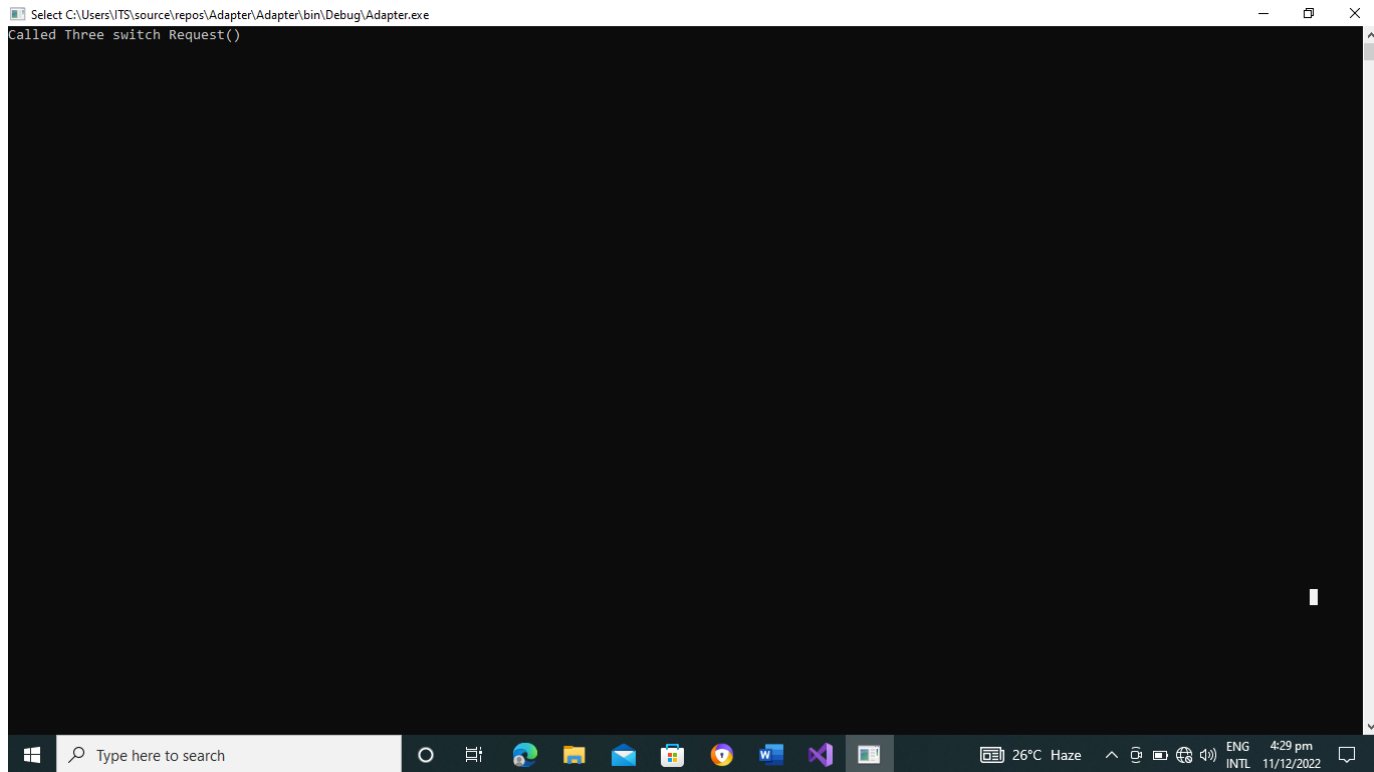
        adaptee.SpecificRequest();
    }
}

/// <summary>    /// The 'Adaptee' class    /// </summary>

public class ThreeSwitch
{
    public void SpecificRequest()
    {
        Console.WriteLine("Called Three switch Request()");
    }
}
}

```

# Output:



The screenshot shows a Windows command prompt window with the title bar text "Select C:\Users\ITS\source\repos\Adapter\Adapter\bin\Debug\Adapter.exe". The command prompt displays the output "Called Three switch Request()". The window is set against a black background. The Windows taskbar is visible at the bottom, showing the search bar, task view button, and several application icons. The system tray on the right indicates a temperature of 26°C, weather of Haze, and the date and time as 4:29 pm on 11/12/2022.

```
Select C:\Users\ITS\source\repos\Adapter\Adapter\bin\Debug\Adapter.exe
Called Three switch Request()
```