Bahria University,

Karachi Campus



LAB ASSIGNMENT NO.

\_\_\_\_\_\_\_**6**\_\_\_\_\_\_\_

LIST OF TASKS

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| --- | --- |
| TASK NO | OBJECTIVE |
| 1. | You are working on a project where you get data from third party webapi/service in XML format. You are creating charts from that data for creating a chart you need data in JSON format in order to make them compatiable you need to convert xml data into json but limitation is you can’t modify third party webservice/api you have to make Adapter that returns data in JSON by using adapter pattern. |
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Submitted On:

\_\_\_01-06-2022\_\_\_

(Date: DD/MM/YY)

**TASK**:

You are working on a project where you get data from third party webapi/service in XML format. You are creating charts from that data for creating a chart you need data in JSON format in order to make them compatiable you need to convert xml data into json but limitation is you can’t modify third party webservice/api you have to make Adapter that returns data in JSON by using adapter pattern.

**Main:**

static void Main(string[] args)

{

XmlAdapter adapter = new XmlAdapter();

ITarget target = new JsonAdapter(adapter);

Console.WriteLine("Imcompatible Adapter Interface");

Console.WriteLine("So by using adapter client can call its method");

Console.WriteLine("\nAfter using Adapter Design Pattern, Get XML data Converted TO JASON");

Console.WriteLine(target.GetRequest());

Console.WriteLine("So we get the converted data..\n");

}

**ITarget:**

interface ITarget

{

string GetRequest();

}

**XML Adapter:**

class XmlAdapter

{

public string GetSpecificRequest()

{

return "Conversion of XML data To JSON ";

}

}

**JSON Adapter:**

class JsonAdapter : ITarget

{

private readonly XmlAdapter adaptee;

public JsonAdapter(XmlAdapter adaptee)

{

this.adaptee = adaptee;

}

public string GetRequest()

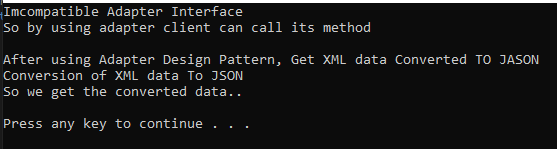
{

return this.adaptee.GetSpecificRequest();

}

}

**Output:**

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