Bahria University,

Karachi Campus



LAB ASSIGNMENT NO.

**08**

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:

**02-06-2023**

**Task 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.**

**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;

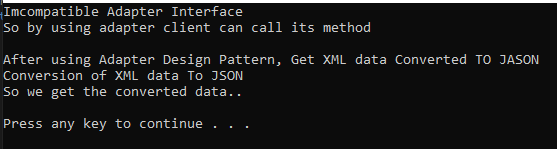
public JsonAdapter(XmlAdapter adaptee){

this.adaptee = adaptee;}

public string GetRequest(){

return this.adaptee.GetSpecificRequest();}}

**Output:**

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