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:

\_\_\_28-04-2020\_\_\_

(Date: DD/MM/YY)

**QUESTION**: 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.

**Itarget:**

interface Itarget

{

string dataConverter\_into\_JSON(string xml\_To\_JSON);

}

**Adaptee:**

class Adaptee

{

public const string xmls = @"<?xml version='1.0' standalone='no'?>

<root>

<person id='1'>

<name>Syed Ali Abbas</name>

<url>https://github.com/syed-ali-abbas</url>

</person>

<person id='2'>

<name>Sabba Ila Deys</name>

<url>https://github.com/syed-ali-abbas</url>

</person>

</root>";

}

**Adaptar:**

class Adaptar:Itarget

{

Adaptee adpt;

public Adaptar(Adaptee adpt) {

this.adpt = adpt;

}

public String dataConverter\_into\_JSON(string xmlData) {

XmlDocument XMLDoc = new XmlDocument();

XMLDoc.LoadXml(xmlData);

return JsonConvert.SerializeXmlNode(XMLDoc);

}

}

**Main:**

static void Main(string[] args)

{

Adaptee Adaptee = new Adaptee();

Itarget it = new Adaptar(Adaptee);

Console.WriteLine(it.dataConverter\_into\_JSON(Adaptee.xmls));}

**Output:**

