**Practical No:8**

**Aim: Implement a typical Service.**

**Code:**

IService1.cs

public interface IService1

{

[OperationContract]

string GetData(int value);

[OperationContract]

int add(int a, int b);

[OperationContract]

int sub(int a, int b);

[OperationContract]

int Mult(int a, int b);

[OperationContract]

int division(int a, int b);

[OperationContract]

CompositeType GetDataUsingDataContract(CompositeType composite);

}

[DataContract]

public class CompositeType

{

bool boolValue = true;

string stringValue = "Hello ";

[DataMember]

public bool BoolValue

{

get { return boolValue; }

set { boolValue = value; }

}

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[DataMember]

public string StringValue

{

get { return stringValue; }

set { stringValue = value; }

}

}

}

Service.svc.cs

public class Service1 : IService1

{

public string GetData(int value)

{

return string.Format("You entered: {0}", value);

}

public int sub(int a,int b)

{

return a - b;

}

public int add(int a, int b)

{

return a + b;

}

public int Mult(int a, int b)

{

return a \* b;

}

public int division(int a, int b)

{

return a / b;

}

public CompositeType GetDataUsingDataContract(CompositeType composite)

{

if (composite == null)

{

throw new ArgumentNullException("composite");

}

if (composite.BoolValue)

{

composite.StringValue += "Suffix";

}

return composite;

}

}

Output :

