1. **Message** - Abstraction Class.
2. **SystemMessage & UserMessage**- Redefined Abstraction Classes.
3. **IMessageSender**- Bridge Interface.
4. **EmailSender, WebServiceSender & MSMQ Sender**- ConcreteImplementation class which implements the IMessageSender interface.

/// <summary>

/// The 'Abstraction' class

/// </summary>

public abstract class Message

{

public IMessageSender MessageSender { get; set; }

public string Subject { get; set; }

public string Body { get; set; }

public abstract void Send();

}

/// <summary>

/// The 'RefinedAbstraction' class

/// </summary>

public class SystemMessage : Message

{

public override void Send()

{

MessageSender.SendMessage(Subject, Body);

}

}

/// <summary>

/// The 'RefinedAbstraction' class

/// </summary>

public class UserMessage : Message

{

public string UserComments { get; set; }

public override void Send()

{

string fullBody = string.Format("{0}\nUser Comments: {1}", Body, UserComments);

MessageSender.SendMessage(Subject, fullBody);

}

}

/// <summary>

/// The 'Bridge/Implementor' interface

/// </summary>

public interface IMessageSender

{

void SendMessage(string subject, string body);

}

/// <summary>

/// The 'ConcreteImplementor' class

/// </summary>

public class EmailSender : IMessageSender

{

public void SendMessage(string subject, string body)

{

Console.WriteLine("Email\n{0}\n{1}\n", subject, body);

}

}

/// <summary>

/// The 'ConcreteImplementor' class

/// </summary>

public class MSMQSender : IMessageSender

{

public void SendMessage(string subject, string body)

{

Console.WriteLine("MSMQ\n{0}\n{1}\n", subject, body);

}

}

/// <summary>

/// The 'ConcreteImplementor' class

/// </summary>

public class WebServiceSender : IMessageSender

{

public void SendMessage(string subject, string body)

{

Console.WriteLine("Web Service\n{0}\n{1}\n", subject, body);

}

}

/// <summary>

/// Bridge Design Pattern Demo

/// </summary>

class Program

{

static void Main(string[] args)

{

IMessageSender email = new EmailSender();

IMessageSender queue = new MSMQSender();

IMessageSender web = new WebServiceSender();

Message message = new SystemMessage();

message.Subject = "Test Message";

message.Body = "Hi, This is a Test Message";

message.MessageSender = email;

message.Send();

message.MessageSender = queue;

message.Send();

message.MessageSender = web;

message.Send();

UserMessage usermsg = new UserMessage();

usermsg.Subject = "Test Message";

usermsg.Body = "Hi, This is a Test Message";

usermsg.UserComments = "I hope you are well";

usermsg.MessageSender = email;

usermsg.Send();

Console.ReadKey();

}

}