Practical 2 C

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1:AIM: Write a program to create a delegate called TrafficDel and a class called TrafficSignal
with the following delegate methods.
Public static void Yellow()
Console.WriteLine("Yellow Light Signal To Get Ready");
Public static void Green()
Console.WriteLine("Green Light Signal To Go");
Public static void Red()
Console.WriteLine("Red Light Signal To Stop");
Also include a method IdentifySignal() to initialize an array of delegate with the above
methods and a method show() to invoke members of the above array.
CODE:
TrafficSignal.cs
using System;
namespace TrafficDelegateExample
public delegate void TrafficDel();
class TrafficSignal
public static void Yellow()
Console. WriteLine("Yellow light signals to get ready");
public static void Green()
Console. WriteLine("Green light signals to go");
public static void Red()
Console. WriteLine("Red light signals to stop");
TrafficDel[] td = new TrafficDel[3];
public void IdentifySignal()
td[0] = new TrafficDel(Yellow);
td[1] = new TrafficDel(Green);
td[2] = new TrafficDel(Red);
public void display()
```

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td[0]();
td[1]();
td[2]();
} }
Program.cs
using System;
namespace TrafficDelegateExample
class Program
static void Main(string[] args)
TrafficSignal ts = new TrafficSignal();
ts.IdentifySignal();
ts.display();
} } }
OUTPUT:
Yellow light signals to get ready
Green light signals to go
Red light signals to stop
2:AIM: Write a program to accept a number from the user and throw an exception if the
number is not an even number.
CODE:
NotEvenException.cs
using System;
namespace ExceptionHandlingExample
class NotEvenException:Exception
public NotEvenException(string msg)
```

: base(msg)

Program.cs using System;

class Program

namespace ExceptionHandlingExample

static void Main(string[] args)

} }

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int num;
try
{
    Console.Write("Enter a number: ");
    num = int.Parse(Console.ReadLine());
    if ((num % 2) != 0) throw new NotEvenException("Not an even number ");
    else
    Console.WriteLine("Its even number ");
}
catch (NotEvenException e) { Console.WriteLine(e.Message); }
}
}
OUTPUT:
Enter a number: 5
Not an even number
Enter a number: 6
Its even number
```