

## Star Movement

1. The code below has a small error towards the end. Investigate and solve.
2. Write a paragraph contrasting and comparing this code with yours. (Include a copy of your code – faults and all).

```
Module Module1
    Const Width As Integer = 50
    Const Height As Integer = 30
    Dim Reply As String
    Dim L1 As Integer

    Sub Main()

        L1 = 0
        Startup()
        Do While L1 < Height

            Rectangle(0 + L1, 0 + L1, Width - L1, Height - L1, 50, 0.001, "*", ".")
            L1 = L1 + 1

        Loop
        Reply = Console.ReadLine()
    End Sub

    Sub Startup()

        Console.Title = "Star Movement"
        Console.Clear()
        Console.SetWindowSize(Width, Height)

    End Sub

    Sub Move(ByVal x1 As Integer, ByVal y1 As Integer, ByVal x2 As Integer, ByVal y2 As Integer, ByVal steps As Integer,
    ByVal delay As Decimal, ByVal Symbol As String, ByVal Path As String)
        Dim xpos As Decimal
        Dim ypos As Decimal
        Dim L2 As Decimal
```

```

L2 = 0
Do Until L2 >= steps
    xpos = Int(0.5 + x1 + ((L2 / steps) * (x2 - x1)))
    ypos = Int(0.5 + y1 + ((L2 / steps) * (y2 - y1)))

    Console.SetCursorPosition(xpos, ypos)
    Console.Write(Symbol)
    TimeDelay(delay)

    Console.SetCursorPosition(xpos, ypos)
    Console.Write(Path)

    L2 += 1
Loop
End Sub

Sub TimeDelay(ByVal Secs As Decimal)

    Dim StartTime As Date = Now
    Do Until (Now - StartTime).TotalSeconds > Secs

        Loop
    End Sub

Sub Rectangle(ByVal XStart As Integer, ByVal YStart As Integer, ByVal XEnd As Integer, ByVal YEnd As Integer, ByVal
Steps As Integer, ByVal Delay As Decimal, ByVal Symbol As String, ByVal Path As String)
    Move(XEnd, YStart, XStart, YStart, Steps, Delay, Symbol, Path)
    Move(XStart, YStart, XStart, YEnd, Steps, Delay, Symbol, Path)
    Move(XStart, YEnd, XEnd, YEnd, Steps, Delay, Symbol, Path)
    Move(XEnd, YEnd, XEnd, YStart, Steps, Delay, Symbol, Path)

End Sub
End Module

```