```
Module Module1
Sub Main()
    'Insert code here
End Sub
Class BinaryWord
     Private BitStream As String
     Private Mantissa As Double
     Private Exponent As Integer
     Private RealNumber As Double
     Public Sub InputBitStream()
         Dim ValidPattern As Boolean
        Console.Write("Enter a 12 bit word: ")
             Do
                 BitStream = Console.ReadLine
                 If Len(BitStream) <> 12 Then Console.Write("That was not 12 bits. Enter again: ")
             Loop Until Len(BitStream) = 12
             ValidPattern = True
             For counter = 0 To 11
                If BitStream(counter) <> "0" And BitStream(counter) <> "1" Then ValidPattern = False
             If Not ValidPattern Then Console.Write("That was not a binary word. Enter again: ")
         Loop Until ValidPattern
     End Sub
     Public Sub ExtractMantissa()
        Mantissa = 0
         For counter = 0 To 7
             Mantissa = Mantissa + Val(BitStream(counter)) * Math.Pow(2, (-1 * counter))
        Next
     End Sub
     Public Sub ExtractExponent()
        'Insert code here
     End Sub
     Public Sub ApplyExponent()
        'Insert code here
     End Sub
     Public Sub OutputRealNumber()
         Console.WriteLine(RealNumber)
        Console.ReadLine()
     End Sub
 End Class
```