1. Write a program that counts the number of four letter words in a given sentence. Take the sentence "I would much rather have in inch of dog than a mile of pedigree." as a sample input sentence.

2. A windows GUI application has been created which has the elements shown in the figure below. There are two text boxes on the left, a group box containing two radio buttons, and a list box on the right. The elements have the following names:

<table>
<thead>
<tr>
<th>Element</th>
<th>Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Top left text box</td>
<td>txtData1</td>
</tr>
<tr>
<td>Bottom left text box</td>
<td>txtData2</td>
</tr>
<tr>
<td>Data1 radio button</td>
<td>rdoData1</td>
</tr>
<tr>
<td>Data2 radio button</td>
<td>rdoData2</td>
</tr>
<tr>
<td>list box on the right</td>
<td>lstData</td>
</tr>
<tr>
<td>Click Here button</td>
<td>btnClickHere</td>
</tr>
</tbody>
</table>

Write the program code for the button click event which will do the following:
If the Data1 radio button is checked, load the data from the Data1 text box into the list box.
If the Data2 radio button is checked, load the data from the Data2 text box into the list box.

```csharp
private void btnClickHere_Click(object sender, EventArgs e)
{
}
```
3. Consider the Oink class defined below:

```java
public class Oink
{
    private int one;
    private double two;
    public Oink()
    {
        one = 0;
        two = 0.0;
    }
    public Oink(int a, double b)
    {
        one = a;
        two = b;
    }
    public void Get(int ref x, double ref y)
    {
        x = a;
        y = b;
    }
    public void Set(int x, double y)
    {
        a = x;
        b = y;
    }
    public void Print()
    {
        Console.WriteLine(a);
        Console.WriteLine(b);
    }
}
```

Each of the sequences below runs as part of a main program and makes use of the Oink class. For each sequence, state whether or not the sequence is legal or illegal. In addition, if the sequence is illegal write an explanation telling why the sequence is illegal.

A)
Oink a1 = new Oink();
Oink b2 = new Oink(3, 4.5);
int one;
one = 14;
a1.Set(12, 3.4);

B)
Oink a1 = new Oink(9, 43.2);
int x;
x = a1.one;

C)
Oink x1 = new Oink(1, 2.5);
Console.WriteLine(x1);

D)
Oink y1 = new Oink(45);
int x = 9;
y1.Set(x, 4.3);

E)
Oink z1 = new Oink(99, 43.2);
Console.WriteLine(z1.Print);
4. Assume that you have a string defined by:
string a = "No amount of education will cure stupidity.";

This string has 7 words. Write a program to prompt the user for input of an integer from 1 to 7. Print the word corresponding the integer entered.

Your program must be general and not tailored to this particular string or this particular string length. You may assume that all strings will have only one space between words.