

## Unit Four Assignment Two:

Write a Java project (Application) with just a driver class.

This project should determine how many elements of the infinite series shown below are required to find the value of pi, accurate to 5 decimal places.

$$\pi/4 = 1 - 1/3 + 1/5 - 1/7 + 1/9 - 1/11 + \dots$$

You must use the following constant

```
private static final double PI = 3.14159;
```

and your program must use a do loop.

Your output should look like this and should be placed in the console window.

```
Value of pi = 3.14159
```

```
Number of elements of the series = 130658
```

The value of pi is not the value of the constant, instead it is the value of the series rounded to 5 places.