

## LAB-12

### Binomial coefficient

CODE:

```
def binomialCoeff(n, k):  
    if k > n:  
        return 0  
    if k == 0 or k == n:  
        return 1  
    return binomialCoeff(n-1, k-1) + binomialCoeff(n-1, k)
```

n = 5

k = 2

```
print ("Value of C(%d,%d) is (%d)" % (n, k, binomialCoeff(n, k)))
```

OUTPUT:

```
>>> |  
= RESTART: C:/Users/bored/AppData/Local/Programs/Python/Python312/binomial coeff  
icient using dp.py  
Value of C(5,2) is (10)  
>>> |
```

### Word wrap

CODE:

```
import textwrap
```

```
def word_wrap(text, width):
```

```
    wrapped_text = textwrap.fill(text, width)
```

```
    return wrapped_text
```

```
sample_text = "This is an example of text that we want to wrap to a certain width using Python."
```

```
wrapped_text = word_wrap(sample_text, 20)
```

```
print(wrapped_text)
```

OUTPUT:

```
>>> |  
= RESTART: C:/Users/bored/AppData/Local/Programs/Python/Python312/word wrap usin  
g dp.py  
This is an example  
of text that we want  
to wrap to a certain  
width using Python.  
>>> |
```

