#### IT TOOLS PRACTICAL 07

## **IMPLEMENTING CODING PRACTICES IN PYTHON USING PEP8**

PEP8 is a style guide for python code. PEP stands for python Enhancement Proposal and they describe and document the way python language evolves. It is a document that describes new features proposed for python and document aspects of python like design and style. It promotes a very readable and eyepleasing coding style.

Something to keep in mind are:

1. Use 4-Space indentation and no tabs.

## **EXAMPLE:**

2. Use docstrings: There are both single and multi-line docstrings that can be used In python. However, the single line comment fits in one line, triple quotes are used in both cases. These are used to define a particular program or define a particular function.

### **EXAMPLE:**

```
"""This is single line docstring"""
"""This is
a
multiline comment"""
```

3. Wrap lines so they don't exceed 79 characters: The python standard library is conservative and requires limiting to 79 characters. The lines can be wrapped using parenthesis, brackets, braces. They should be used in preference to backslashes

## **EXAMPLE:**

```
with open('/path/from/where/you/want/to/read/file') as file_one, \
   open('/path/where/you/want/the/file/to/be/written', 'w') as file_two:
   file_two.write(file_one.read())
```

4. While naming the function of methods always use self for the first argument.

If the function argument name matches with reserved words then it can be written with a trailing comma.

# **EXAMPLE:**

```
# Python program to find the
# factorial of a number provided by the user.
# change the value for a different result
```

5. Factorial code using pep8

## **EXAMPLE:**

```
# uncomment to take input from the user
#num = int(input("Enter a number: "))

factorial = 1

# check if the number is negative, positive or zero
if num < 0:
    print("Sorry, factorial does not exist for negative numbers")
elif num == 0:
    print("The factorial of 0 is 1")
else:
    for i in range(1,num + 1):
        factorial = factorial*i

print("The factorial of",num,"is",factorial)</pre>
```