Tutorial

CPSC 217

Looping in Python

- Till now, you have probably noticed that we are writing codes that can be executed only once! We have written some cool programs with the previous structures; however, doing everything only once is actually in contrast with the nature of programming! Computers are built to do similar tasks over and over again and we, as the programmers, have to write codes for that.
- that are used to execute a code block repeatedly. However, you should always have in mind that loops HAVE TO BE TERMINATED! In fact, there should be some "conditional statement" which is evaluated in each iteration, and is guaranteed to become false at some point!

For loop

Used when you know the range (Definite loop)

Code 1:

```
for x in [1,2,3,4,5,6,7,8,9,10]:
print(x, end = ',')
```

Code 2:

```
for x in ['ab','cd','ef','gh','ij']:
print(x, end = ',')
```

For loop

Used when you know the range (Definite loop)

(Start, End-1, Step-size)

Code 3:

```
for it in range(1,11,1):
print(it, end = ',')
```

Practice 1

Try to replicate the following drawing using simple graphics, for loop, and if-else structure.

