Programming 622 Practical 1

Big O Notation

- Write your answers into to the word document using any word processor application. Save your document as name_icasNo_qualification eg Noble_Nzama_12354_Bsc2ndyear
- convert it to PDF and submit it into this link "
 https://www.dropbox.com/request/UziZP4CAHhI8a2vnIoMM "before Friday 00:00
 (14/08/2020)
- 1. Indicate whether each of the following statements is *true* or *false*;
 - a. f(n) is no(1) means the function f(n) is bounded above by a polynomial function.
 - b. f. If f(n) is O(1), it means f(n) never exceeds the constant, 1.
- 2. Find the computational complexity of the following code snippets;

a.

```
int \ powerA(double \ x, int \ n) \\ \{ \\ if \ (n == 0) \\ return \ 1; \\ if \ (n == 1) \\ return \ x; \\ else \\ return \ x * powerA(x, n-1); \\ \}
```

b.

```
count = 0;
for(int i = 1; i <= n; i *= 5)
for(int j = 1, j <= i; j + +)
count + +
```