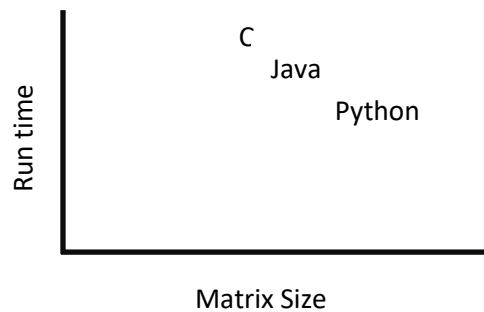**Question:** Conduct a survey of run time of the matrix computation and produce a plot with axis specification as follows.



Matrix size:

- Take two square matrix and calculate their product: $C = AB$
- Square matrix of size 16, 32, 64, 128, 256 to be considered. For simplicity, consider the dimensions of A and B to be similar.
- Use similar flow-control in coding in all the programming languages.

Code:

- For C programming, implement two versions as- i) one with the use of pointers, and ii) without pointers.
- For Python, use *numpy or scipy*. Do not use any linear algebra package, or other libraries available to enhance the efficiency of linear algebra calculation.
- Please use similar flow control method—you can use *for loop* implementation for all three programming languages, or any other flow control of your preference.

How to submit:

- Submit a well-documented report interpreting the outcomes, and justify why a runtime difference (if there's any) emerges among the programming languages. If no difference shows up, explain the probable reasons for that.
- Attach all the codes as an appendix in the report.