PYTHON FOR DATA SCIENCE

Q1. Java is statically typed, while Python is dynamically typed which compensates for very small compensation time

- ☐ True compensates for smaller time
- ☑ ~~False compensates for a larger time~~
- ☐ Neither A or B
- ☐ Python is also statically typed

Correct Answer: **Option B- False compensates for lager time**

Q2. An IDE comprises of

- ☐ source code editor
- ☐ compiler
- ☐ debugger
- ☑ ~~All of the above~~

Correct Answer: **Option D- All of the above**

Q3. Explain the Python specific editors such as Pycharm, Spyder

Answer:

Spyder

- ▼ code editor & robust syntax
- ▼ code completion & navigation
- ▼ debugger
- ▼ integrated document

Pycharm

- ▼ code editor provides syntax and error highlighting
- ▼ code completion & navigation
- ▼ unit testing

▼ debugger

Q4. Explain the sequence of datatypes and also define indexing and slicing.

Answer:

strings: are a sequence of characters

lists: are a sequence of compound data

arrays: are a sequence of constrained list of objects

dictionary: are sequence of key-value pairs

sets: are sequence of unordered collection of unique data

indexing : means accessing elements. To access the elements square brackets can be used.

slicing: creates a slice object representing set of indices specified by start, stop , step.