**Python Tasks – Day3**

1. **What are Data Structures? List some of data structures and their use in real world applications?**

**Ans: -** Data structure is a way of organizing and storing data in a computer so that it can be accessed and updated efficiently**,** Data structures, including linked lists for memory allocation, file directory management and file structure trees, as well as process scheduling queues.

1. **Create a list data type and store names of your friends in it (at least 5), check out what are methods available in list data type, try to figure out their working using help function in python.**

**Ans: -**

friends = ["John", "Mary", "Peter", "Samantha", "David"]

help(friends.append)

1. **What is the difference between ordered data type and unordered data type?**

**To create a list data type in Python and store names of your friends in it, you can use the following code:**

**Ans: -** An ordered collection means that the elements of the collection have a specific order. The order is independent of the value. A unordered collection means that not only does the collection have order, but the order depends on the value of the element.

1. **Write down types of each value given? (In python)**
   1. **100: int**
   2. **105.5: floating**
   3. **192.56j: complex**
   4. **10+6j : complex**
   5. **‘10’: str**
   6. **‘Hello world’: Str**
   7. **[ 10, 20, 50, 100]: list**
   8. **{‘name’: ‘sachin’, ‘age’: 24, ‘language’: ‘python’}: dict**