**Assignment BWT ML/DL ImamaKainat**

**Video Understanding**

1.<https://youtu.be/KoH6FgVjnmg?si=lY7cIIw5qU9WedKT>

2.<https://youtu.be/jTYiNjvnHZY?si=_far0HzyUZmkKEHV>

In **first video** there were the concepts:

**Iterables**(tupples,list,dictionaries,sets,string)

Object that can loop over

**Iterator**

Object that help to go throughout on iterables (like pointer in c++)

In it there are 2 methods used

-Iter-()

-next-()……(Stop iteration functionality also present)

**For loops** : Actually iterators and iterables are backend functionalities of it

Uses an iterator to get each item from an iterables.

**While loop** is old loop technique by it we are managing iterator and iterable .In it there is no method like iter and next.

**Why we are studying it**:  
If we customize our for loop

* we use class where we make mehods of next and iter (or)
* Use generator(better than class) : a term yield used in it.(function)

**2nd video** was about processing large data sets with yield and generators.

Generators are different from regular functions because they don't return all the results at once.

Instead, they yield one result at a time. This makes them more memory-efficient, especially when dealing with large data sets.

It can be used to create pipelines of data processing tasks.

In video the fabinochi eg present.