**Day 3:**

List:

Collection of data

Data type

Data structure

Sequence->linear arrangements

1.create a list using stack?

User defined, built.in function, headers python libraries.

1.create an object in python?

Code reusability.

Constructor(\_\_)call object instances.

Compiler and interpreter?

Ans: basic comparisons: compiler interpreter

Input

Output

Working mechanism

Speed

Memory

Error detection, Error

Programming languages

How compiler works:

Source code->compiler->machine code->o/p

How interpreter works:  
 source code->interpreter->o/p

Product/software/desktop apps/web apps/mobile apps

Setter and getter program?

Desktop apps:

Saas->email

Google docs

Ms office programs,word,excel

Dropbox->infrastructure as a service

Class attributes

Object attributes

Programs: python

1.create a stack using a list(push)(pop)operation?(procedural approach)

2.oops approach, create a stack using classes and objects?

3.reversing a number? i/p->int,using while loop.

4.pattern printing?

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5.armstrong number?

6.palindrome?

7.number sequence?