abstraction->classification,essentials

encapsulation->data grouping,hiding

inheritance->code reuse,substitution

polymorphism->static(overloading),dynamic(override)

keywords->this,getter/setter,final,abstract,constructor,super

-wrapper classes

int->Integer

double->Double

float->Float

char->Character

string

String s="ahmed";//immutable

-charAt-indexOf

-contains-startsWith-endsWith

-substring-split

-length-isEmpty

-replace-replaceAll

StringBuilder

-append-insert-delete-reverse

-array-arraylist-list

\*arraylist-add,remove,set,get

contains,indexOf

addAll-removeAll (arraylist)

clear

sublist

\*Arrays

asList-sort-binarySearch-toString-copyOf-fill

\*Collections

addAll

fill-nCopies

max-min

shuffle-rotate

swap-reverse

replaceAll

\*List based data structures

array

arraylist->add,removal (expensive),read (cheap)

linkedList->add,remove (cheap) ,read (expensive)

\*set based ds

x={1,2,5} = {5,2,1} ={1,2,2,5}

hashset

linkedHashSet

\*map

hashmap

linkedHashMap

\*error handling

errors

-developer->code

-user->code,exception handling

-environment->exception handling,code

checked exceptions->must be handled before code runs

unchecked exceptions->may be handled before code runs

custom Exceptions->for logging

\*IO

-stream

-inputstream-> to app -->byte by byte

-outputstream->from app

reader-writer-> char by char

bufferedReader-BufferedWriter->line by line

File->mkDir,mkDirs,createNewFile,exists