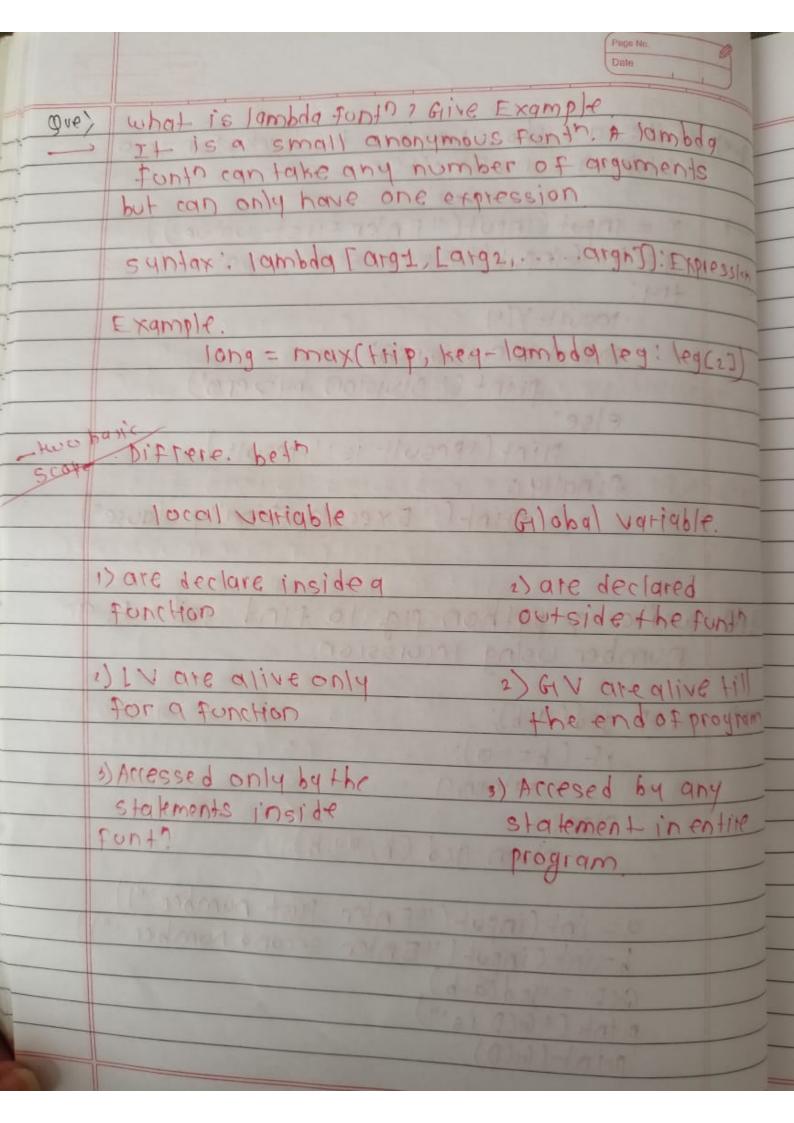
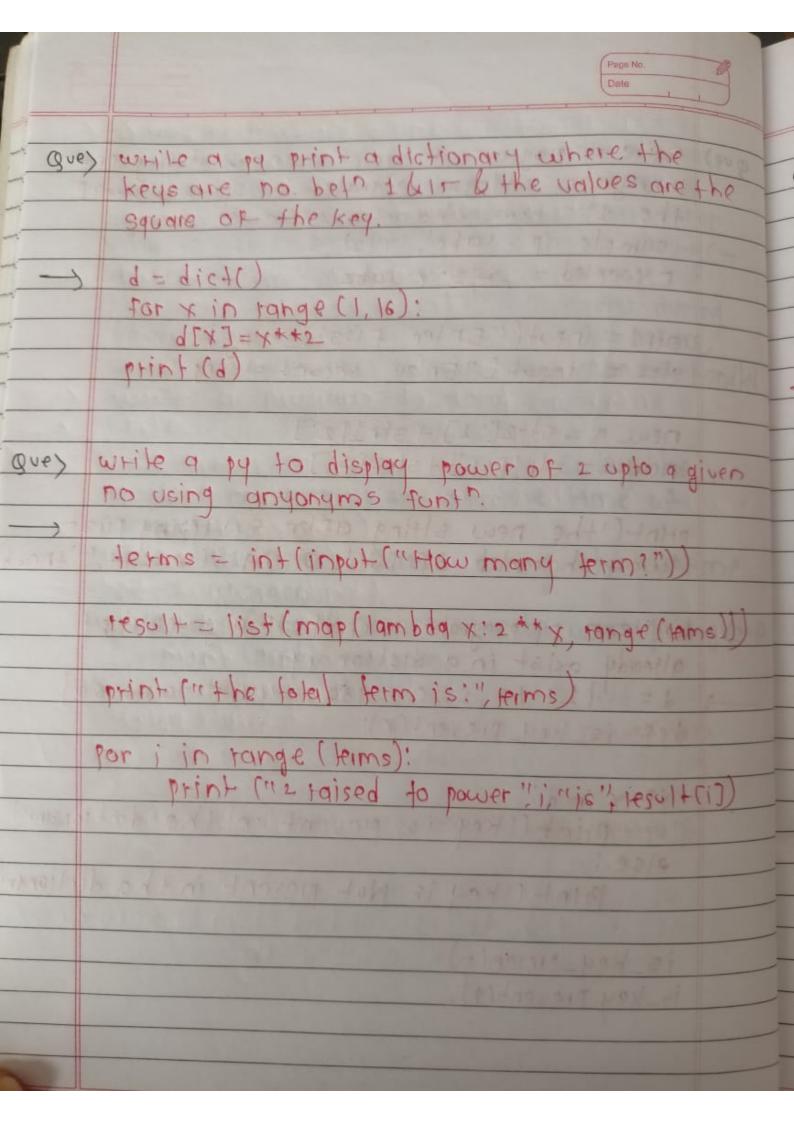
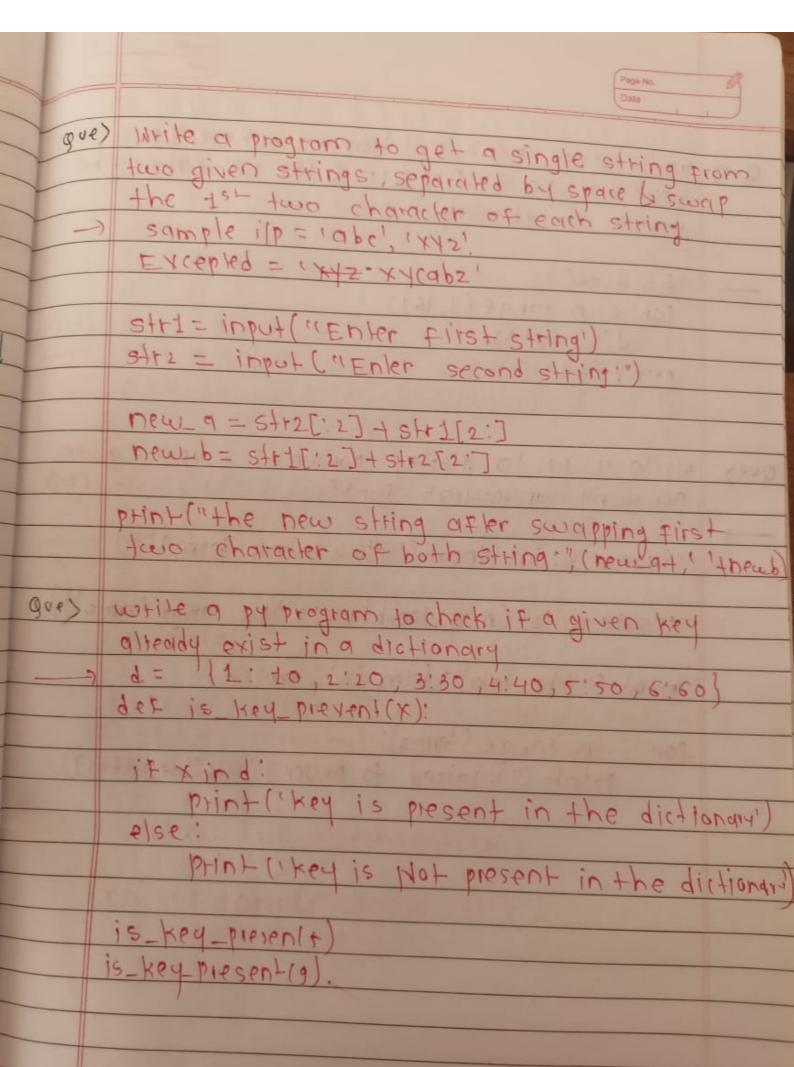
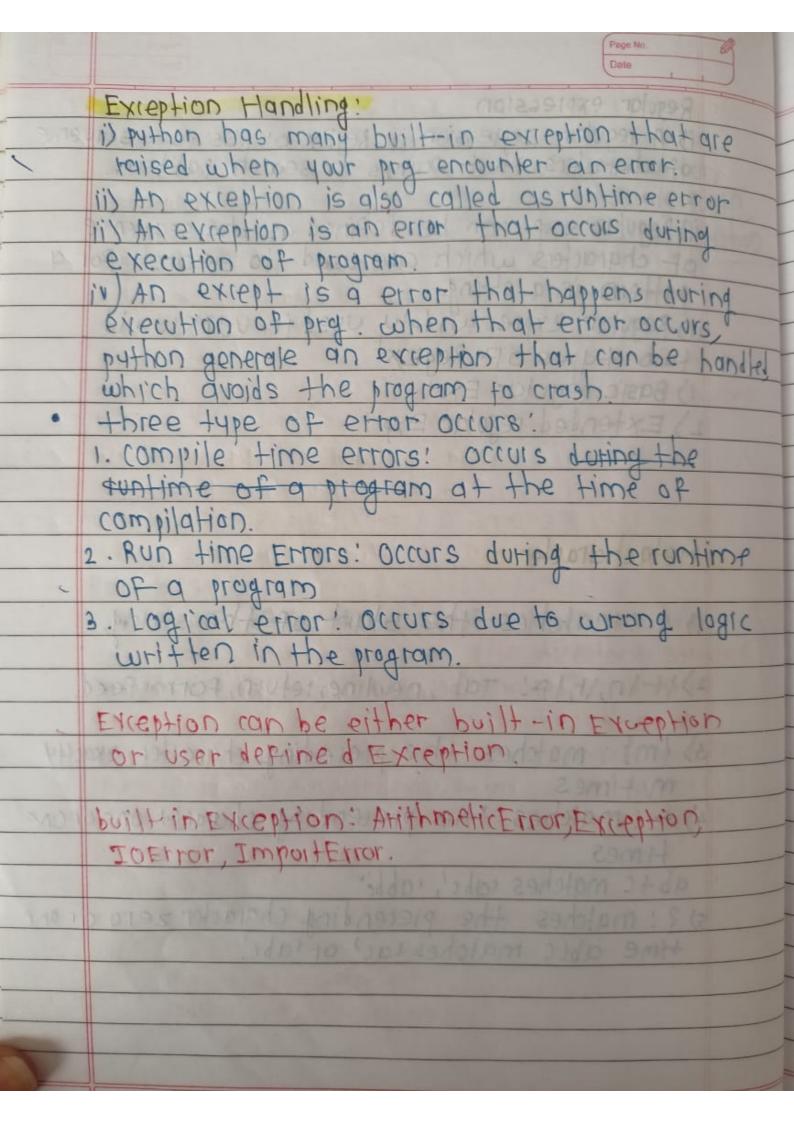
ove) How to handle exception in python 1) exception handling is process that provides exception handling is process that funtime exception handling is done by writing exception handlers in the program.

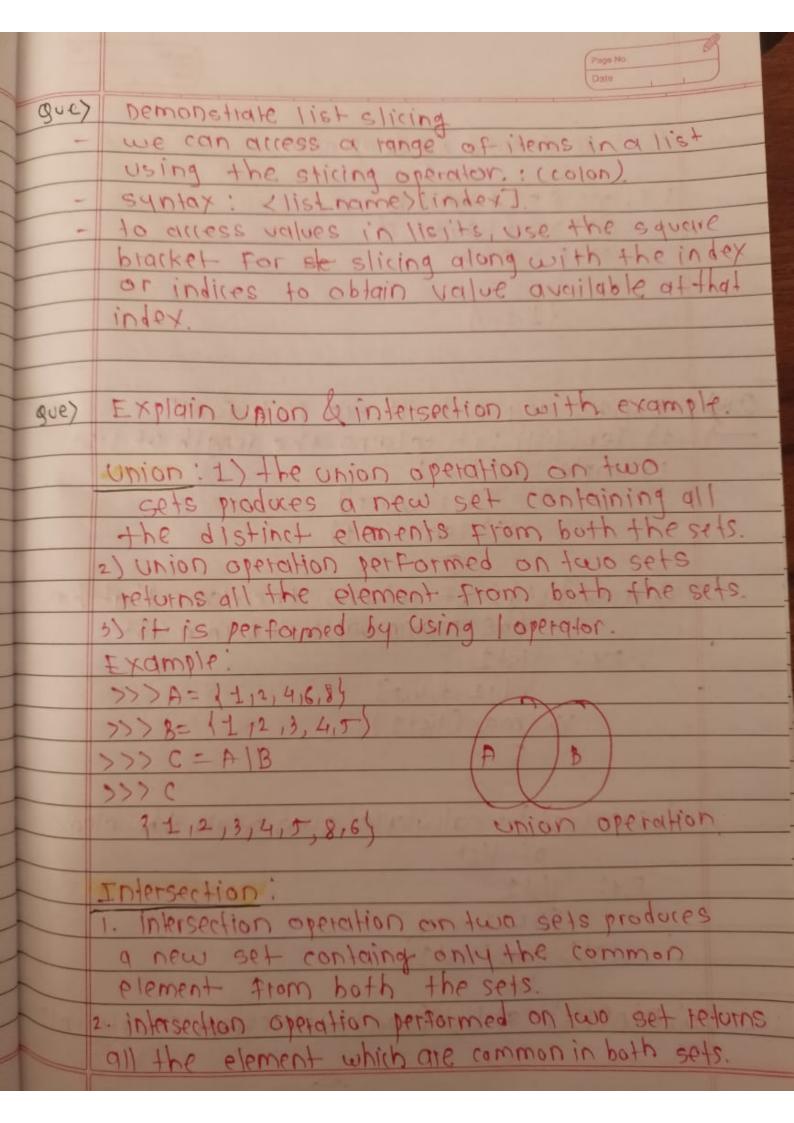
3) theree are three blacks that are used in the exception handling process. 1 try: set of statements that may cause ertor duting tontime are to be written in the try block. @ excep block : the except block executed only when a certain type of as exception occur in the execution of statement whitten in try block 3 finally block: the set of statement that are used to clean up the resource used by the program

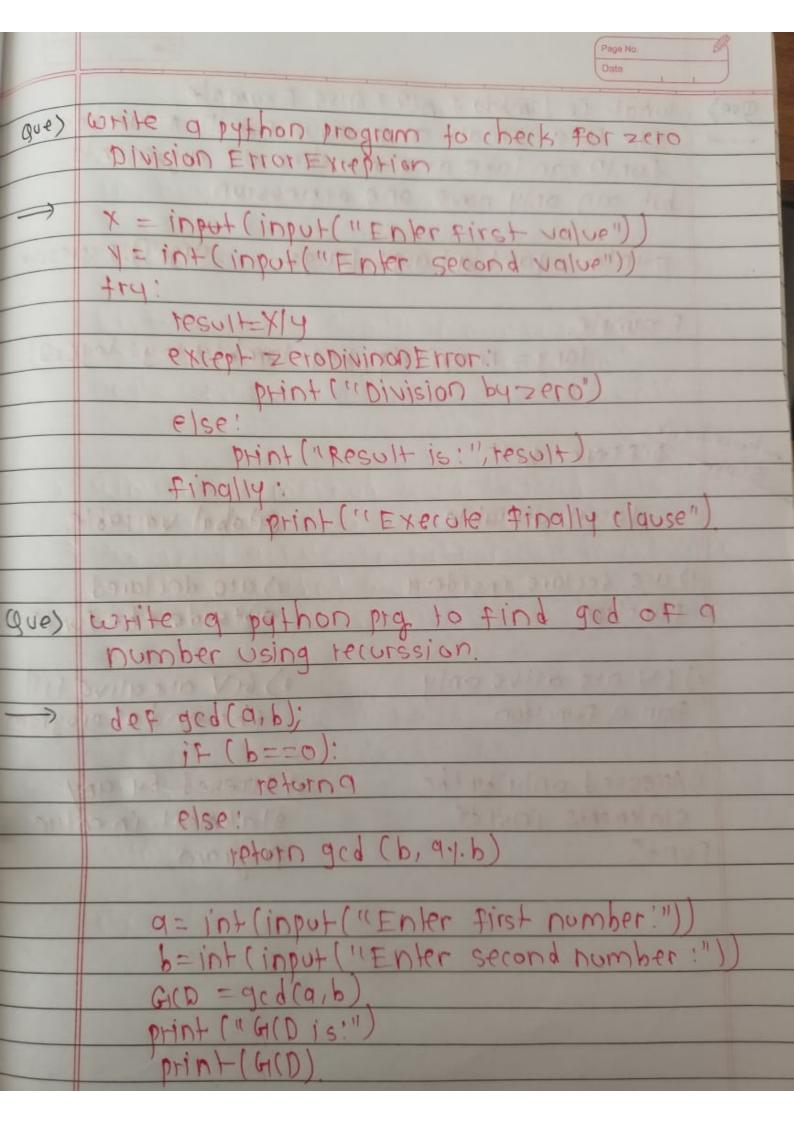


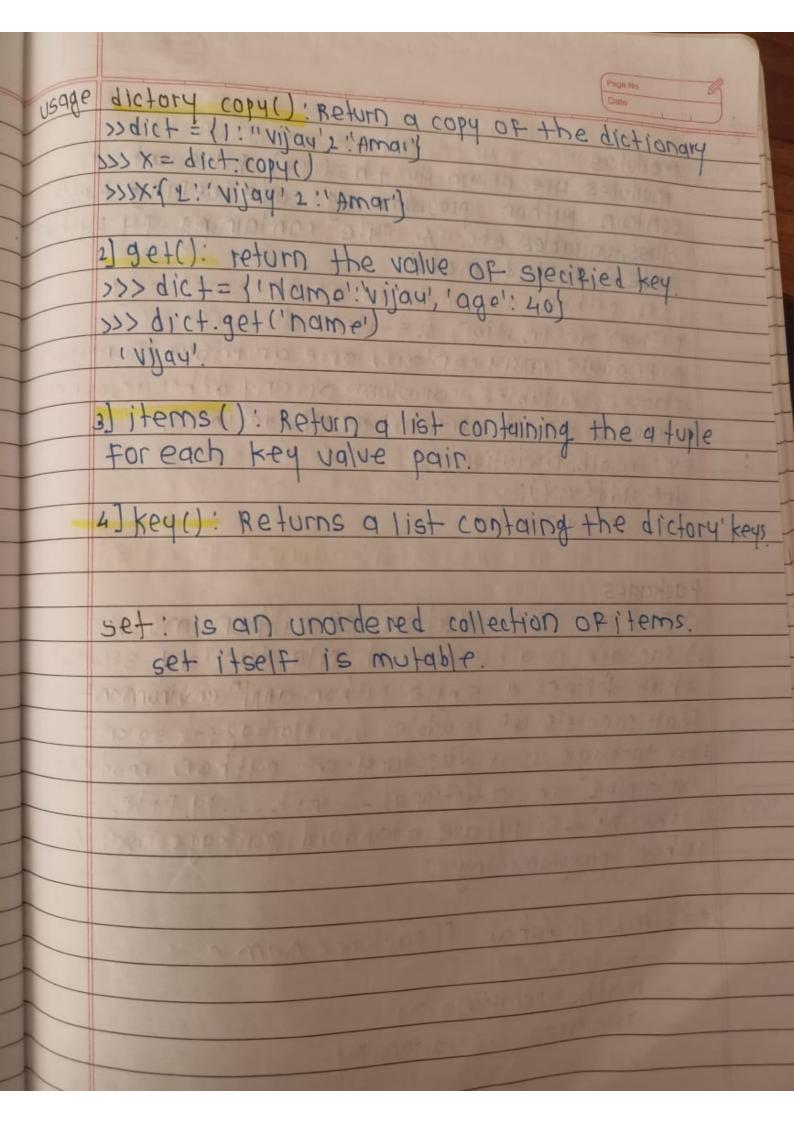


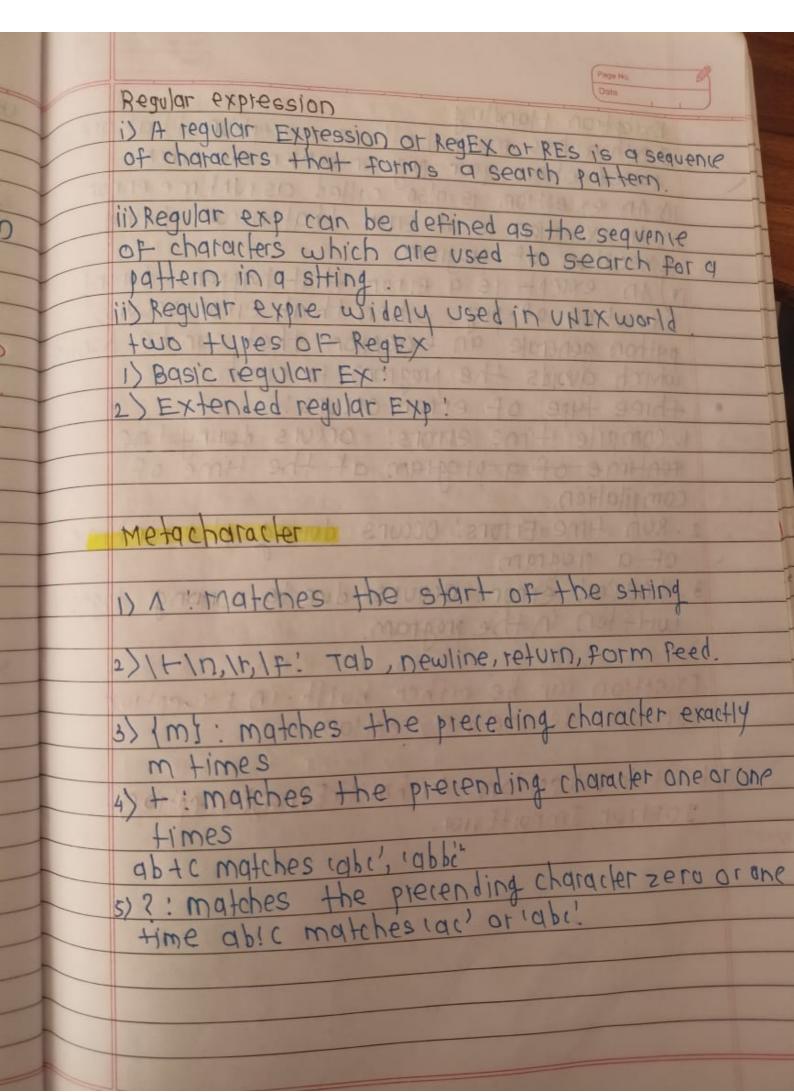




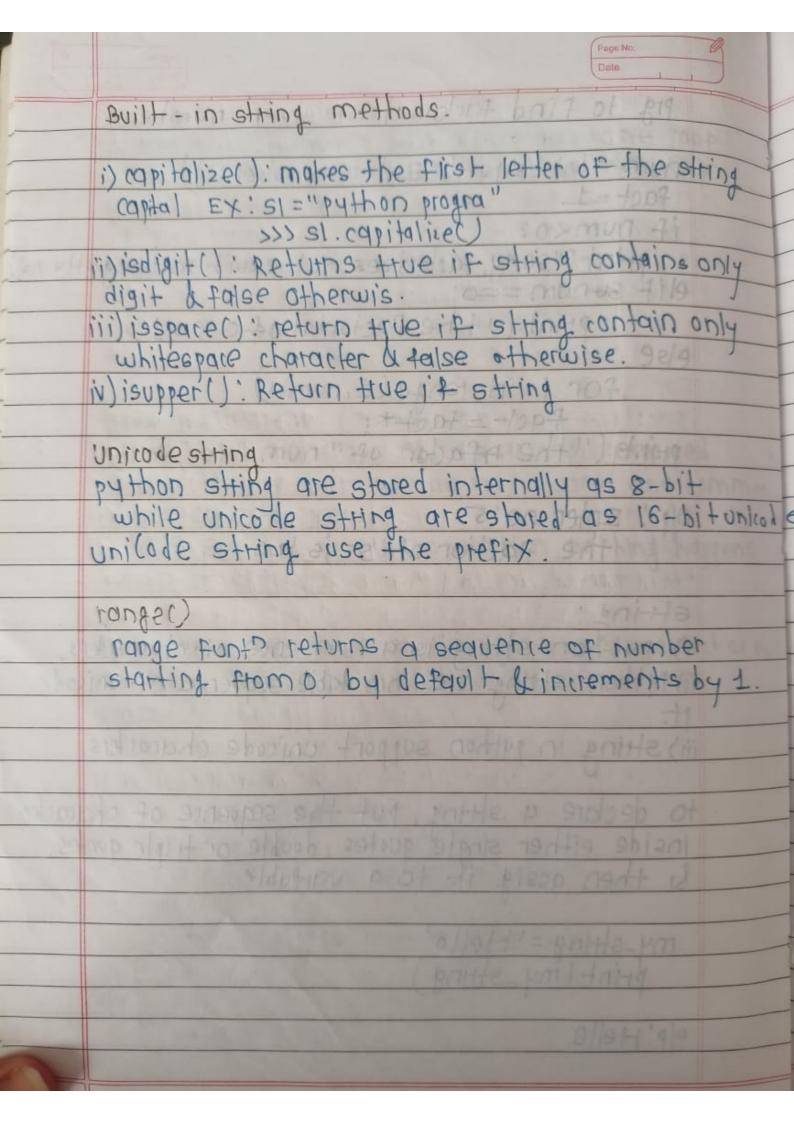


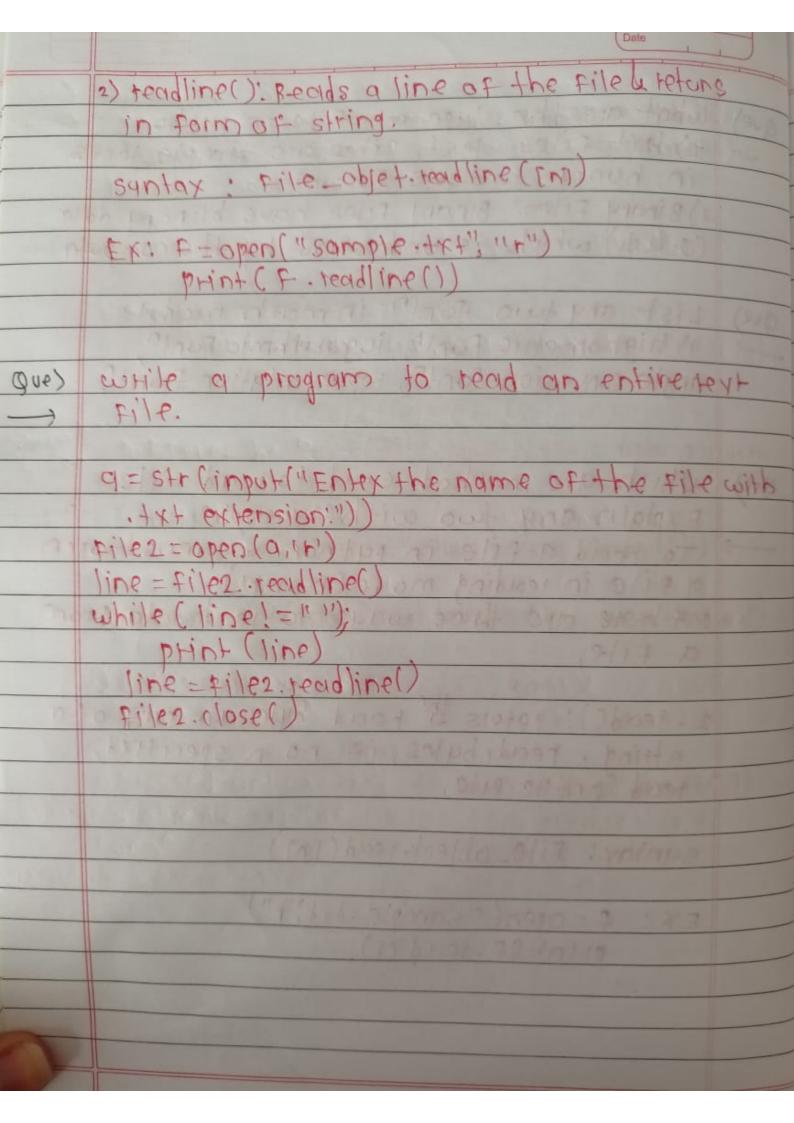


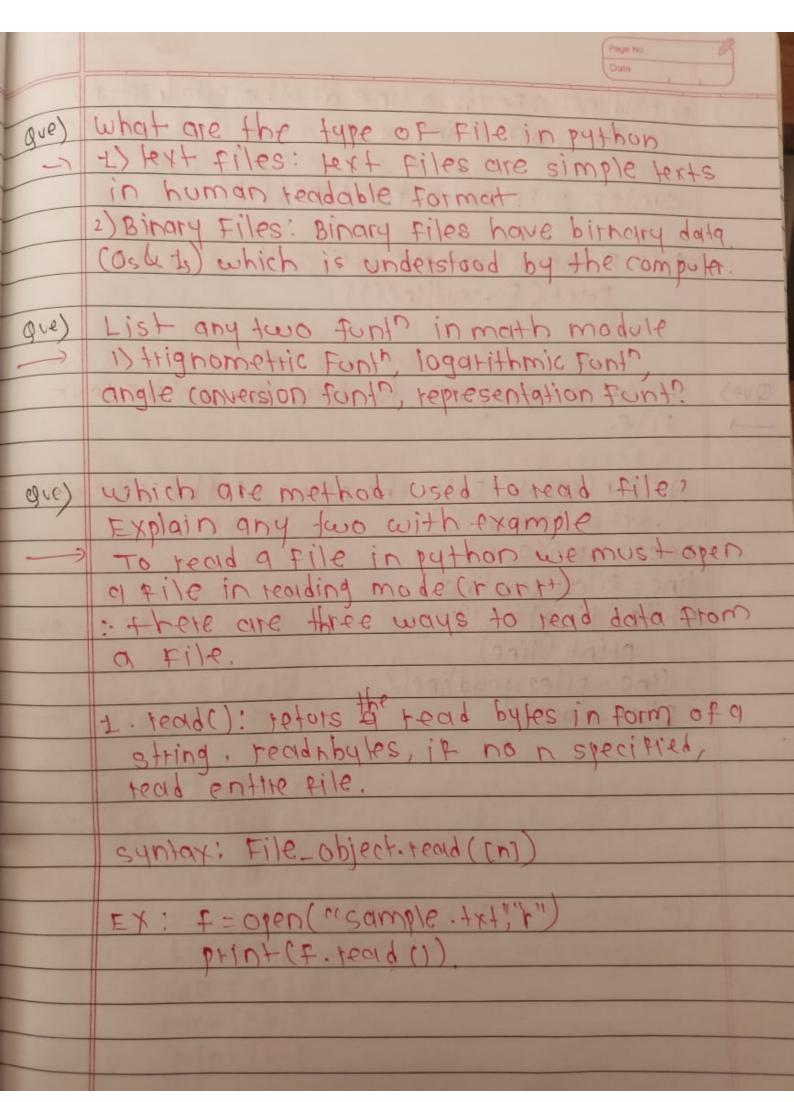


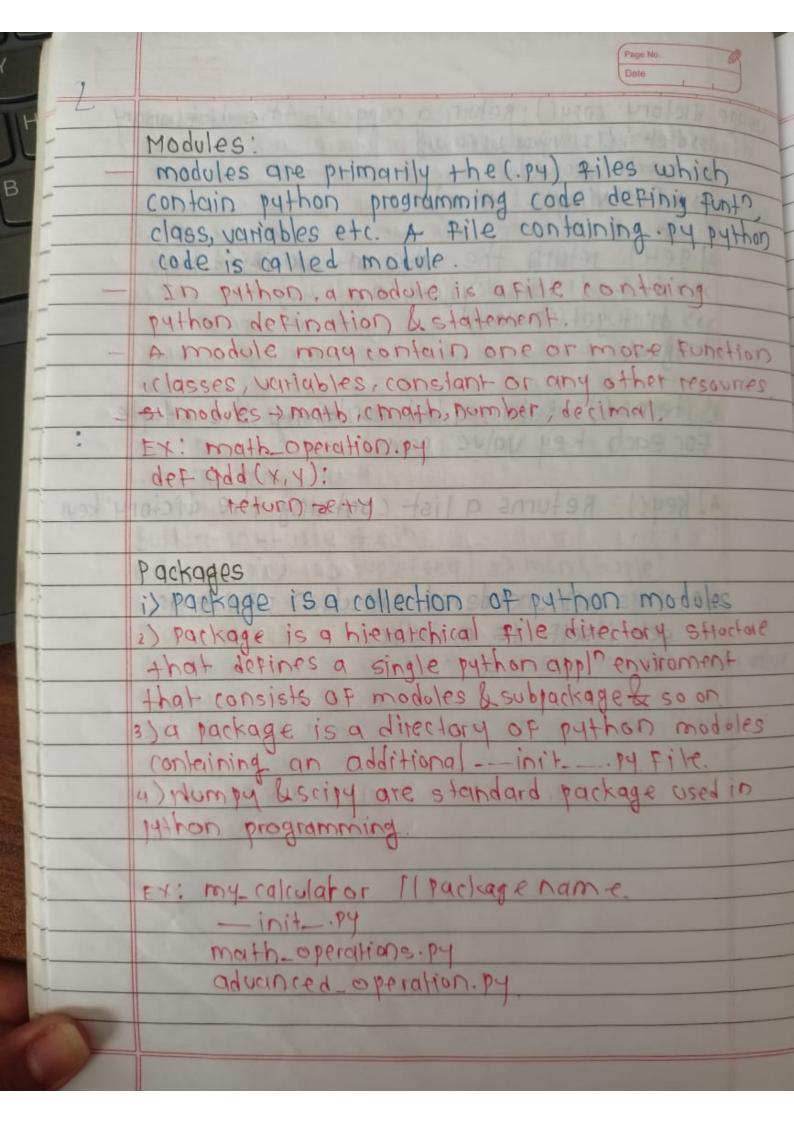


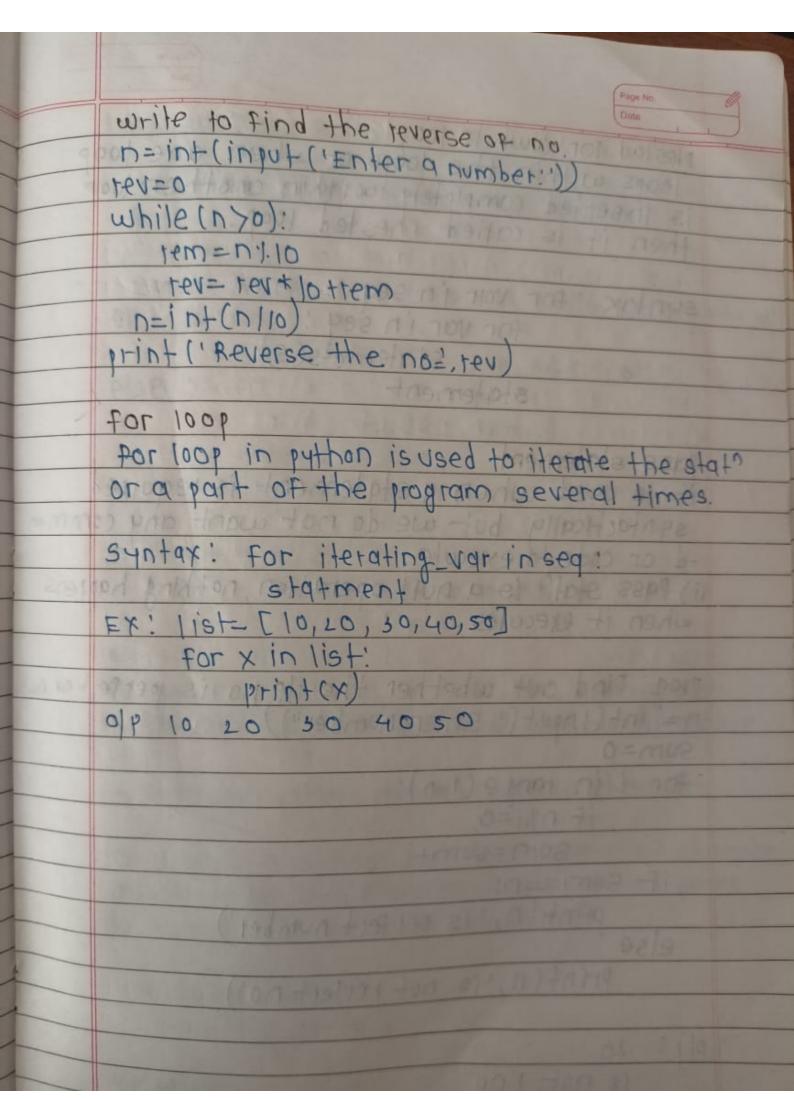
Adv Recutsion: 1) make the code look clean belegant 1) sequence generation is easier 3) complex task can be proken into gimplesab-probusing recurssion Recursion i) Recutsion is a way of programing or coding a prof. in which a funto calls itself one or more times in its body ii) A funt is said to be a tecursive it it calls itself filterc) the filter() function in python takes in a function & a list as arguments. this offers an elegant way to filter out all the elements of sequence for which the funt returns true. mape 3/14/2011 ( paz) a/10/ reducel H. Hame !! (" pman " sme)

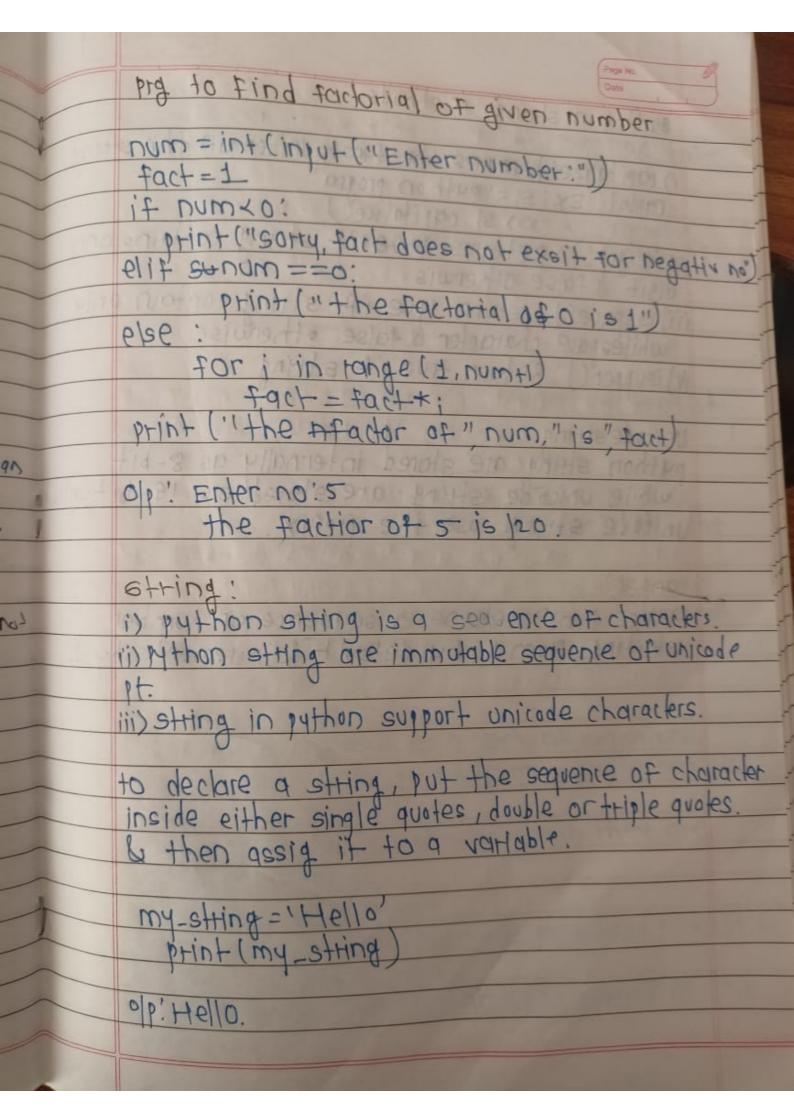












Hested for &while loop: 100ps within the loops or when one loop is inserted completely within another loop then it is called hested loop. syntax "for var in seq! for var in seq! statemets(s) statement pass statement bear and and and and it is used when a statement is required syntactically but we do not want any common -d or code to execute the soli not into ii) Pass state is a null operation, nothing happens when it executes. n= int(input(" Enter number")) Sum=0 for i in range (1,n): if n1.1=0, sum = sum +i if sum == n! else print (n, 'is perfect number') Print(n, 'is not perfect no') 0 1: 20 is not Ino

operator precendence.

when an expression has two or more operators we need to identity the correct sequence to evaluate these operators. This is because the final answer changes depending on the seq.

Ex: 10-4+2 answer is 2 multiphas higher preced.

while loop:
while loop state in python prod languag tepeatedly
executes a target state as long as given conto
is true
syntax: while condo:

stato

white py prof to check the ilp no. is Armstrong:

num = n

sum=0

while (nyo):

tem = n.1.10

Sum = sum+rem \* rem \* rem

n = in+(1110)

if num == sum:

print (num, "is amostrong")

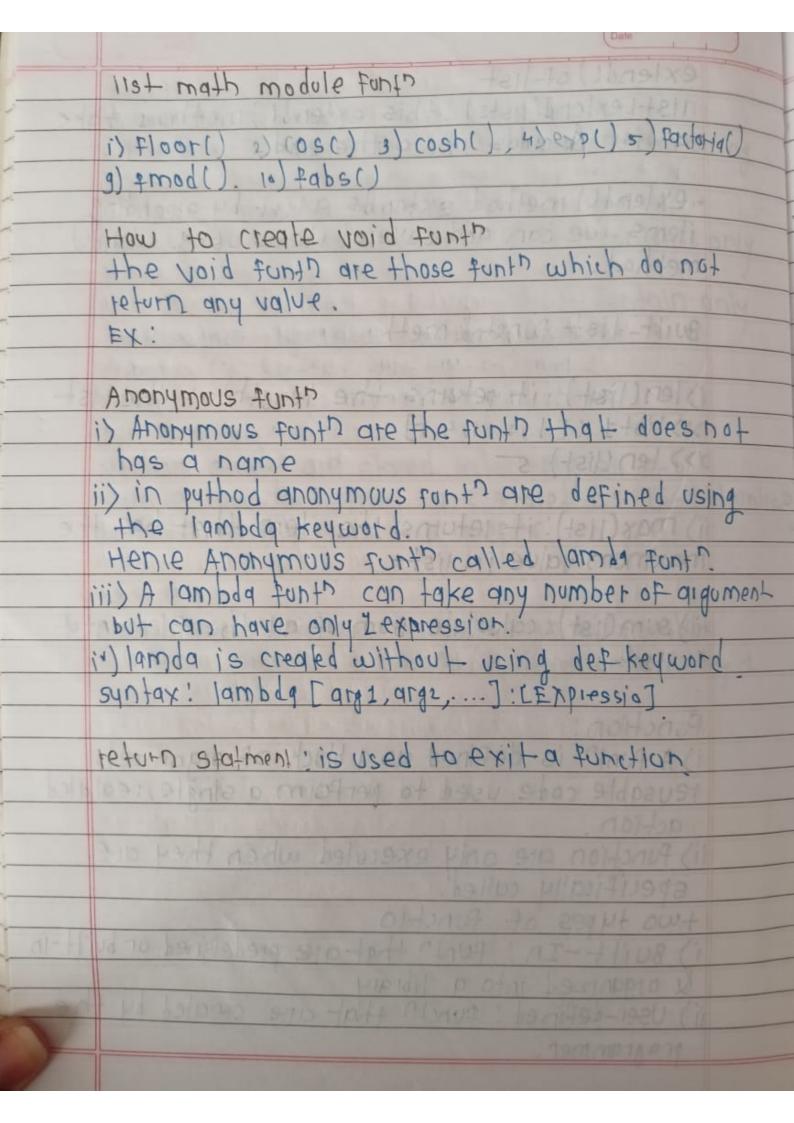
e se!

Print (num. "is not armstrong")

OP

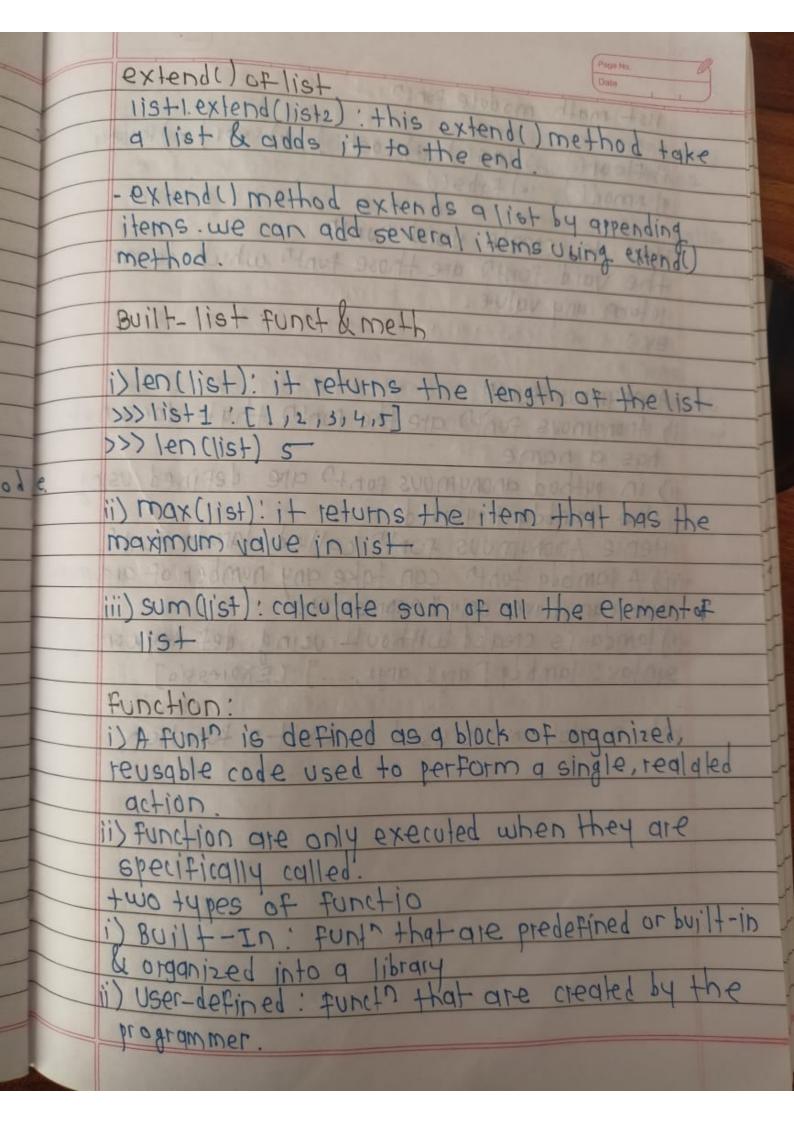
Ente no = 153

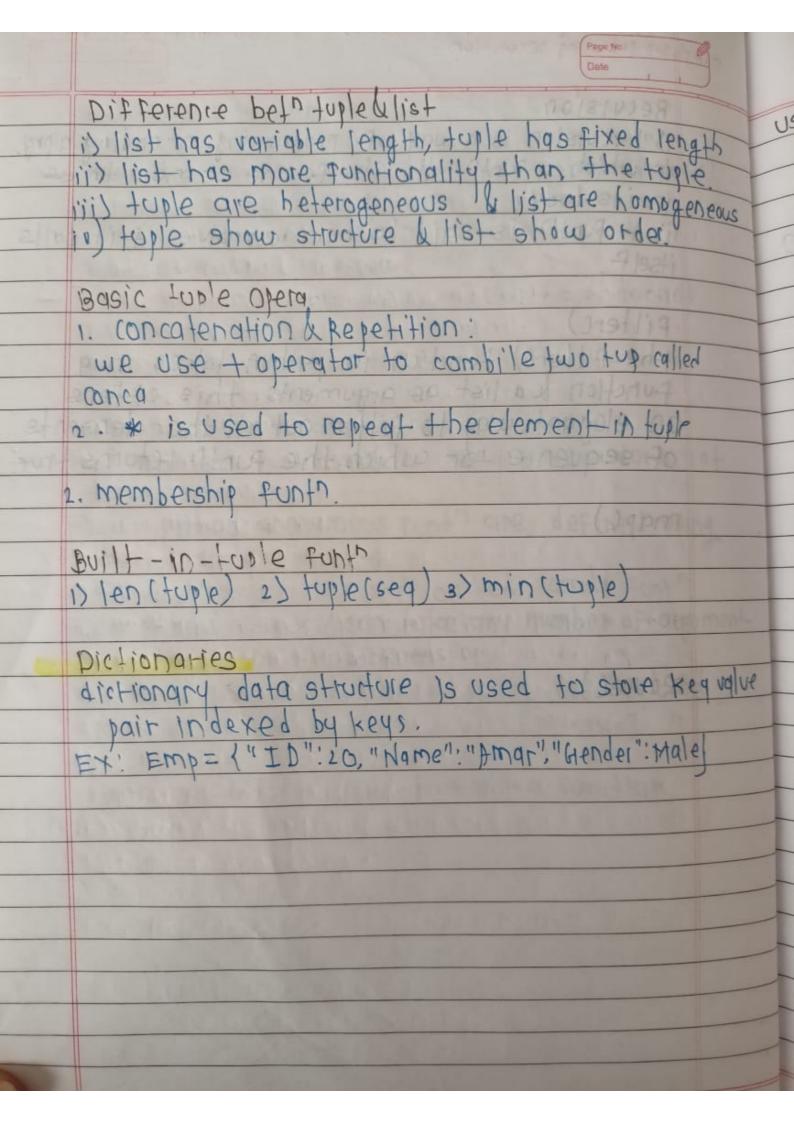
153 is armstrong



194 non is case sensitive language comm yes. this means it treats uppercase blowercase letters differently. list the types of type conversion in python i) Implicit type ii) Explicit executes a saisof state de long de diver c TOTHER DISTRIBUTED AND TENERAL STATE PROPERTY OF CHANT CHELL WASHINGE - CHAN Mottemin ton 21" mun) thing

```
3) it is denoted by & operator
EX: >>> A= { 1,2,4,6,8}
>>> B= { 1,2,3,4,5}
>>> C= A&B
Explain any 2 built - in list funto
1) len(list): it returns the length of list
  Example: >>> list1
               [112131415
             >>> len (list1)
 2) max(list): it returns the items that has
             the maximum value in a list
      Ex: list1
            [112 13,4,5]
          >>> max (list 1
 3) sum (list) = calculates sum ofall the element
            of list
    Ex: list 1
       [1,2,3,4,5]
       >>> sum (115+1)
(1) min(11st) 3) list (seq) - it converts to ple into
```





Page No Date

comments:

i) comment whiting is a good programing practice

ii) comment are non-executable line in practice

iii) two types comment

i) single line (#)

are created simply by beginning aline with

the (#) chara. They are automatically

terminated by the end of line

Ex: #print is a statement

print('Hello pytho')

ii) Multiple line comment("):

Diffierence bet tuple & list

tuple is an ordered sequence of items same as list. the only difference is that tuples are immutable, tuples one created cannot be modified. it is defined within parentheses()

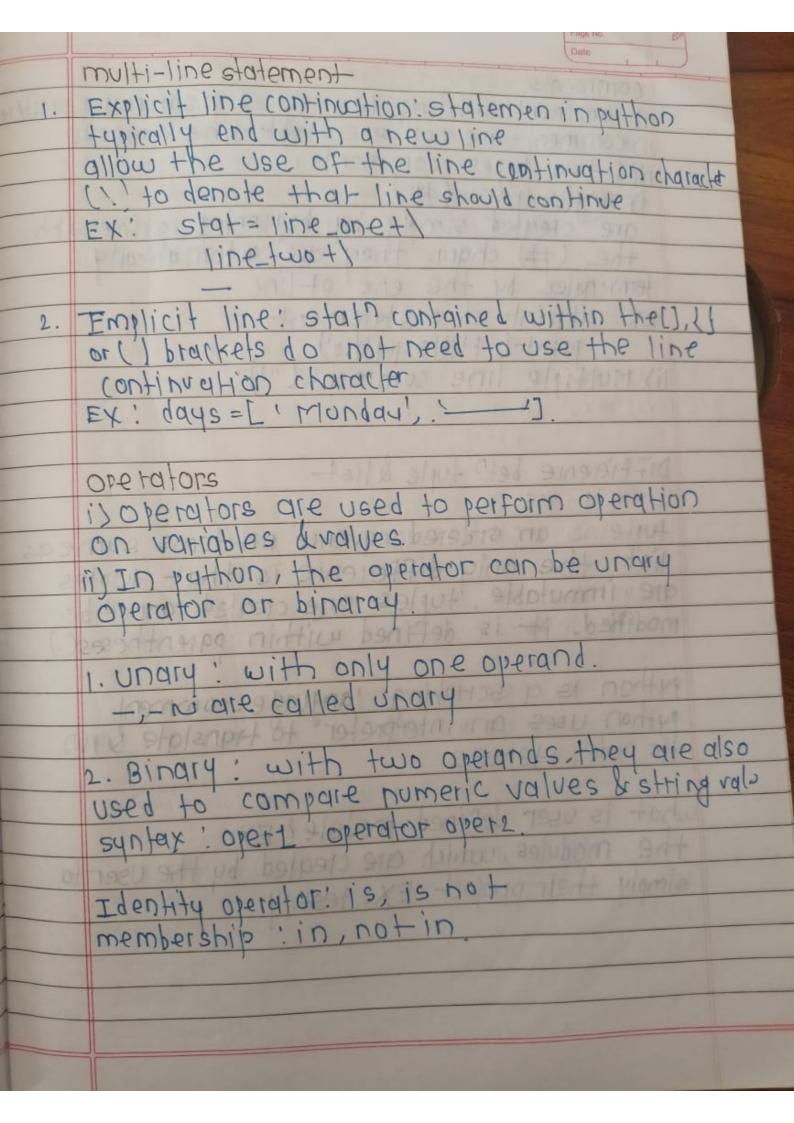
python is a scripting language comment python uses an interpreter to translate brun its code. Hence.

what is user defined module? Ex.

the modules, which are created by the user to simply their project EX: test.14

Python is case sensitive language comm yes. this means it treats uppercase blowercase letters differently. i) Implicit type—

ii) Explicit page 1000 por entron prod long good stide HORNA A TO MET A NUMBER CASTA COSTA COSTA CONSE = CONS mottemin toner mun) they



what is dry run in python

A dry run is the process of a programmer

manually working through their code to trace

the value of variables

## features of python pra

I simple be easy to write bexerve.

- 2. Object-Otiented: python supports (oop) concepts that encapsulate code within objects. All concept is oop like data hiding, operator overloading, inheritance etc. can be well written in python
- 3. platform independance: python can run on both hardware & sofware platform, elafforms like windows, unix, linux etc
- 4. In teractive & interpreted: 14thon is processed at tuntime by interpreter. we do not need to compile program before execting it.

  to theractive mode allows interactive testing & debugging of code.

  5. Dunamic: python provides very high-level of dynamic data types & support dynamic type dynamic data types & support dynamic type checking it also support allomatic garbase coll?

# APPI 1. Web Aprila: we can use juthon to develop well application. it provides libraties to handle internet protocols such as HTML, XML etc. 2. software Developmen: python is helppul for software development process it works as support language. 3. console based Aprila: we can use python to develop console based apply for Ex. Ipython 4. Audiolivideo: python is awesome to perform multiple task & can be used to develop multimedia app. Identifiers i) python identifier is a name give to a funt, class, variables, module that is used in python program ii) An identifiers can be combination of upperces letter, lowercase, underscore & digit iii) we can use underscores to seperate molting words in the indentifier ex! Emp\_salary. in) Identifer start with fetter which can be allow i) Identifer can be of any length ii) we carnot use pythen keyword as identities vii) sejecial character such as . . @ by are not allowed within identifiers