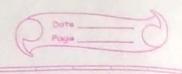
Output :	
print (" number is positive")	Print (type (y)) # < days 'dict'>
	Name 11: 180; 13
0=-5	print (type (e)) # < days 'type')
	# <days 'list'=""></days>
number is positive	d = [10, 20, 30] # < class stn'}
рнит ("aumber is pasitive")	+ < days floor >
£	
n=5	print (type (a)) # < days 'int'>
e, q.	a=10
if condition:	# type () Junction, weed to print the data # type of given variable
1. Simple it	phint (x.imag) #12.0 #
	print (X. sical) # 7.0
$num \qquad (x) = \langle \langle = = = = \rangle \qquad 0$	x = (3 + 3i) + (4 + 3i)
# Candilian: VanName Rel Operaton Value	print (a. imag) # imag, number from inc compan 4.0
Simple	print (a. seal) # seal number from the complex 3.0
	a = 3 + 4j # complex number 3+4;
Canditional Statement:	#
	Complex Number



Complex Number

```
print (a. real) # complex number 3+4j

print (a. real) # real number from the complex 3.0

print (a. imag) # imag. number from the complex 4.0
```

```
X = (3 + 9j) + (4 + 3j)

print (x) # 7 + 12j

print (X. real) # 7.0

print (X. imag) # 12.0
```

type () function, used to print the data # type of given variable

```
print (type(a)) # < dass 'int'>
b = 25.6

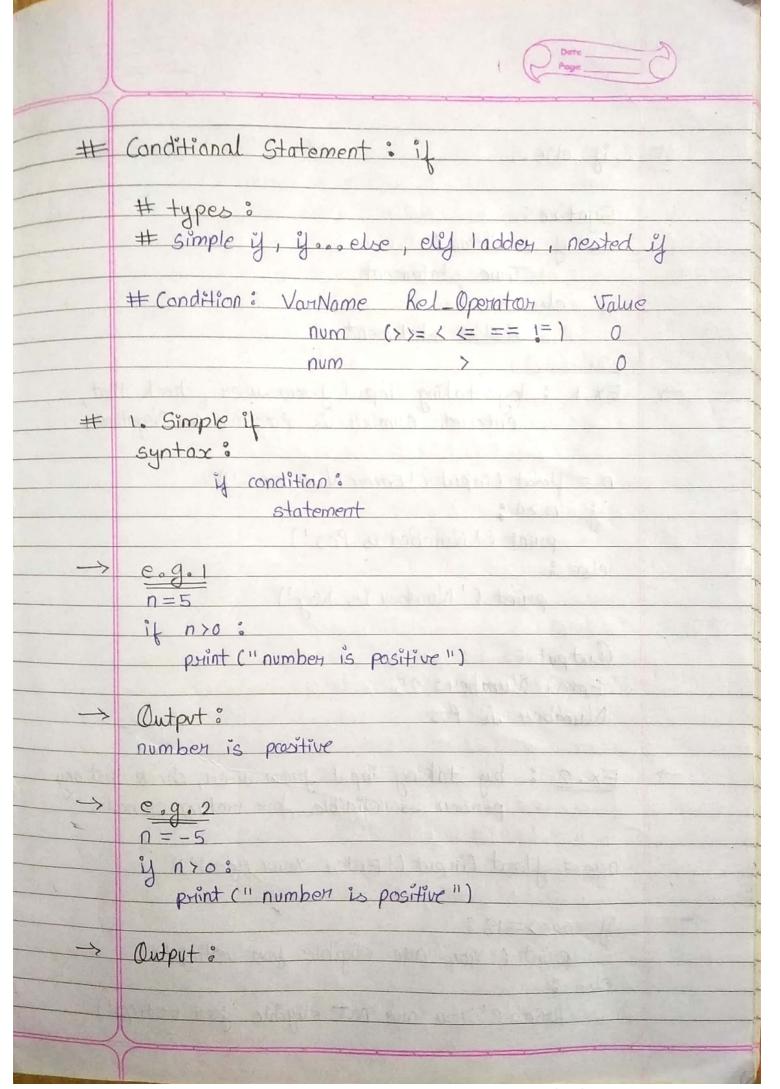
print (type(b)) # < dass 'float'>
c = "(aTS"

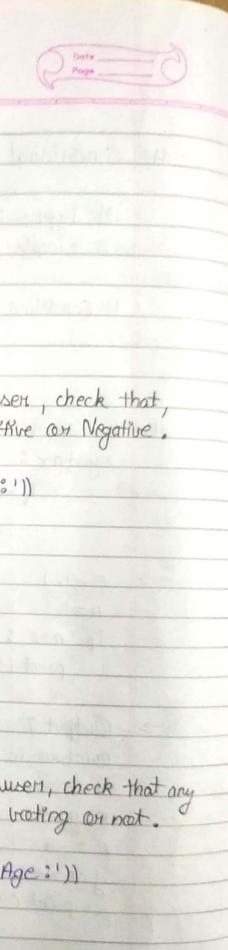
print (type(c)) # < dass 'str'>
d = [10, 20, 30]

print (type(d)) # < dass 'list'>
e = {10, 20, 30}

print (type(e)) # < dass 'type'>
J = {"Rno": 10, "Name": 'Raj' }

print (type(y)) # < dass 'dict'>
```





2. y else ..

Syntax:

y condition:
True statement

False statement

Ex.1: by taking input from user, check that, entered number is pasitive on Negative.

n = floot (input ('Enter Number :'))

y nro:

print ('Number is Pas')

else :

print ('Number is Neg')

autput:

Enter Number: 25

Number is Pas

Ex. 2: by taking input from user, check that any person is eligible for voting on not.

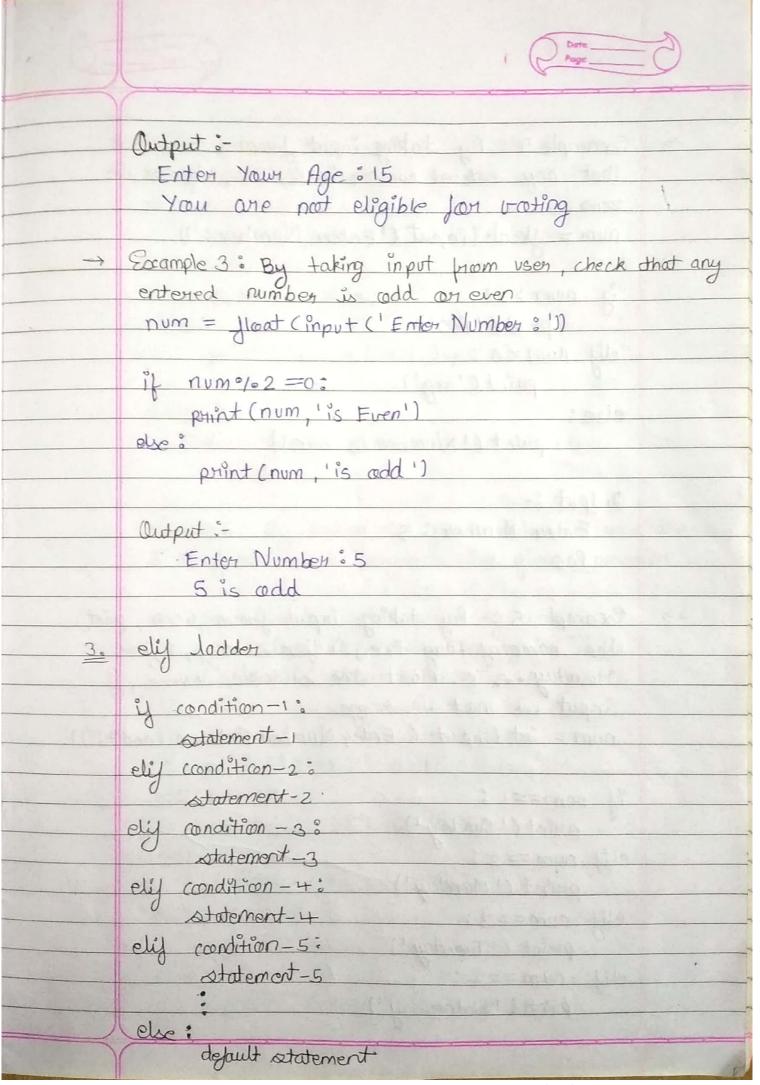
age = float (input ('Enten Your Age: '))

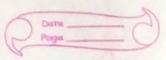
y age>= 18:

print (You are eligible for voting)

else :

RHINT ('You are not eligible for voting')





Example 4: By taking input from user, check that any entered number is Positive, Negotive or Dum = gloot (input ('Enter Number: 1) y num >0: print ('Pas') dy rum <0: print ('Neg') else: print ('Number is Zero') Output :-Enter Number: 5 Example 5 :- By taking input from user, print Monday ...). Print the suitable answer is num = int (input ('Enter Number Between 1 and 7:1) if num == 1: print ('Sunday ') clif num == 2 à print (' Monday ') elij num == 3: print ('Tuesday') ely num == 4: print ('Wodnesday ')



```
olit num == 5:
     print ( 'Thursday )
elig num == 6:
print (1 Eniday)

elif num = 7:

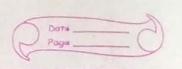
print ('Saturday!)

else:
      print ( Enter Valid Input )
Output:
    Enter Number Between 1 and 7:5
     Thursday
Example 6: By taking 2 floot tralue in variable a & b from user perform the given operation.
  a = gloot (input ('Enter value of a: '))
  b = gloat (input ('Enter value of b:'))

n = int (input ('Enter value of n:'))
      print ('a+b:', a+b)
  elig n==2:
print ('a-b:', a-b)
  elig n == 3° print ('a*b:',a*b)
 elig n == 4:

print ('a/b:', a/b)

else:
        print ('Enter Volid Input')
```



Output :-Enter value of a: 13

Enter value of b: 14

Enter value of n: 2

a-b:-1

Crample 7: By taking 2 floot value in variable a & b from user perform the given operation.

a = float (input ('Enter value of a: ')) b = float (input ('Enter value of 6:1)) n = input ('Enter value of n:1)

if n == '+';

print ('a+b.'; a+b) ely n = '-1:

print ('a-b;',a-b)ely n = '+';print ('a*b;',a*b)

dis n== 1/10 print ('a/b3', a/b) else:

print ('Enter Valid Input')

Output:

Enter value of a: 6 Enter value of b: 3
Enter value of n: 1
0/b: 2.0



⇒ Example 8: Take 5 subject mark from user, make total and perc of it, and then print the grade as per the given table.

math = int (input ('Enter Marks of Moths: '1)

physics = int (input ('Enter Marks of Physics: '1))

chemistry = int (input ('Enter Marks of Chemistry: '1)

IP = int (input ('Enter Marks of I.P.: '1))

english = int (input ('Enter Marks of English: '1))

total = math + physics + chemistry + JP + english
penc = total/5

y pencygo and penc<=100: print (' (xnode: A+')

ely penc 770 and penc <= 90:

print ('(ranade: A')

elif penc > 34 and pene <= 70:

dig perc >= 0 and perc <35:

print ('Grade: c')

print ('Enter Valid Input')

Output :-

Enter Marks of Maths: 68

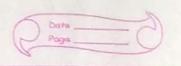
Enter Marks of Physics: 43

Enter Marks of Chemistry: 57

Enter Marks of I.P.: 66

Enter Marks of English: 70

Conade: B



=> Example 9: W.A.P. to print the final amount after applying discount as por given table.

total_amount = floot cinput ('Enter Total Amount: 1)

is total_ormount <10000:

print ('NO to Discount Available ')

print (Final Amount Should Be: , total amount)

elig total amount >=10000 and total_amount <= 20000:

Print ('10%. Discount Available!)

print (Final Amount Should Be: total amount-

total_amount* 0.1)

ely total_amount > 20000 and total_amount < 30000:

Print (115%. Discount Available 1)

print ('Final Amount Should Be: 1, total_omount

- total_amount * 0.15)

else:

print (120% Discourt Available!)

print ('Final Amount Should Be: 1 testal-amount

- total- amount * 0.2)

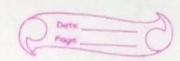
Output :-

Enter total om

Enter Total Amount: 40000

20%. Discount Available

Final Amount Should Be: 32000.00

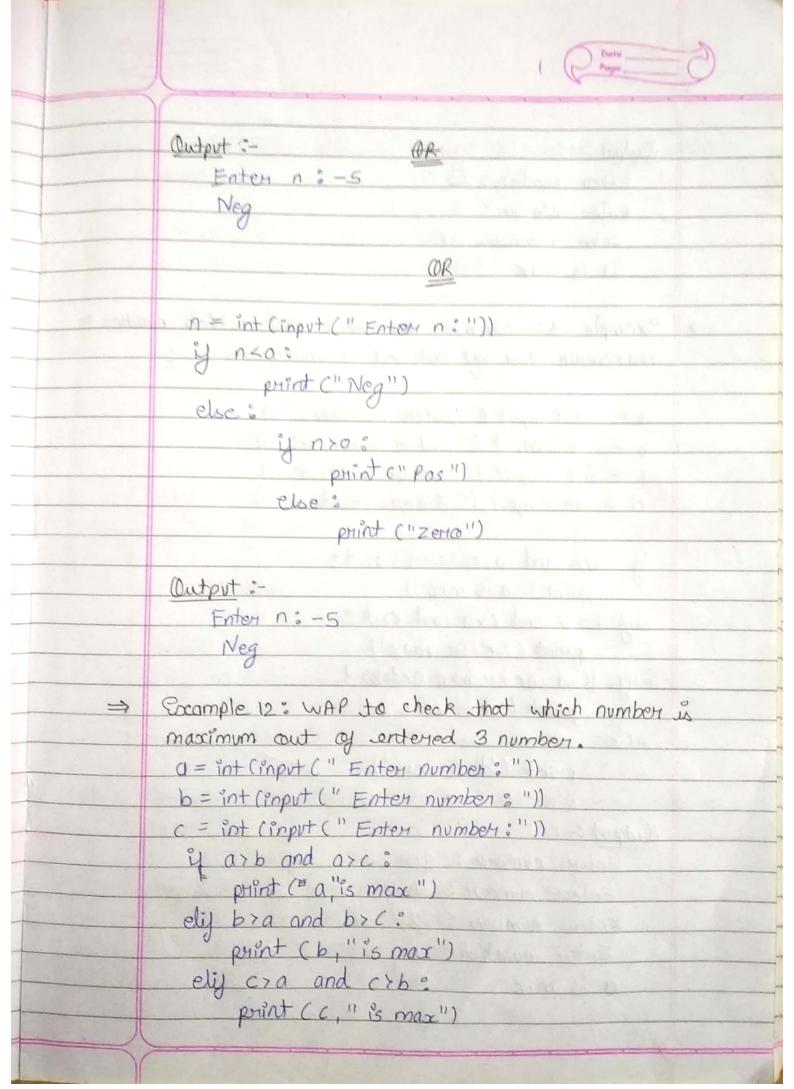


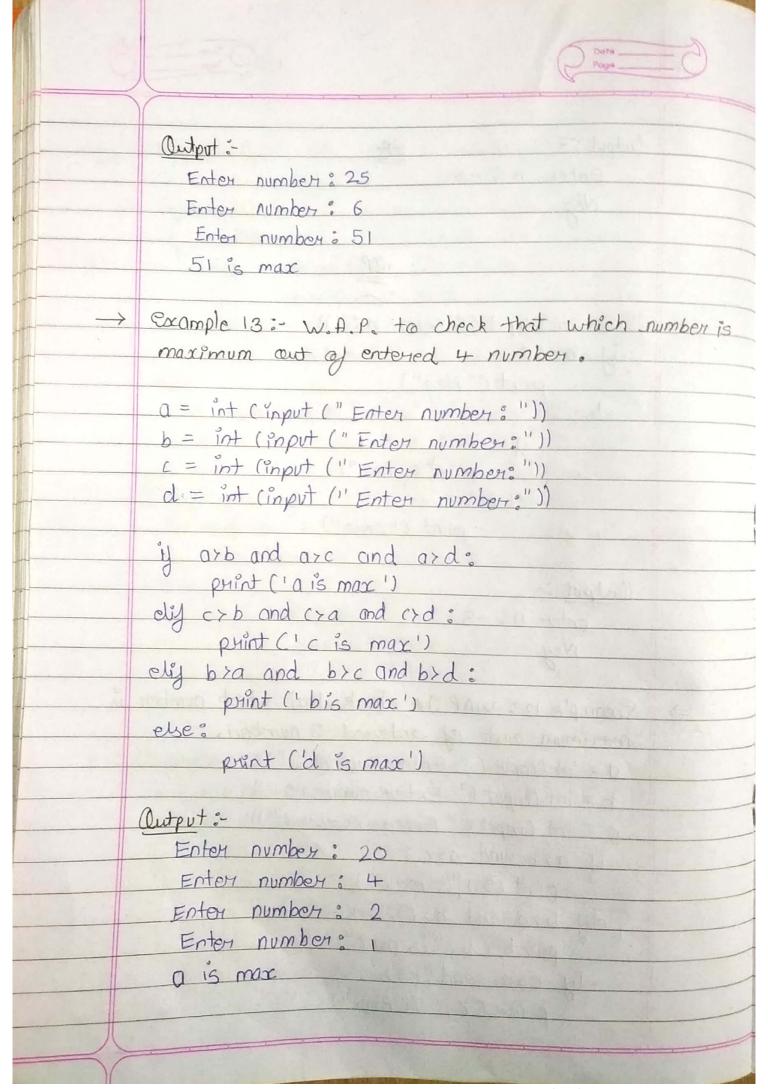
Escample 10: WAP to print the area and perimeter of circle as per users choice: · if user press 1, wrea of circle should be printer as output. of user press 2, perimeter of circle should be printed as output. n = int (input ('Enter Value")) on = Great ("pput (" Enter Rodius: ")) print ['Anea of ancle is i', [22*(91**2)]/7) y n==1 8 eli) n==2: print (' Perimoter of circle is: 1, ((2*22*91)/7)) print (Enter Valid Input!)

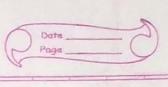
Output:

Enter Value: 1 Enter Radius: 5 Arrea of circle is = 78.57142857 142857

	Data
4.	Wested if the state of the stat
30	Syntax :- 199
	il condition :
rald be	de la la condition sing
	statement . The statement
	else:
	statement
	else:
	statement
Part	OR
101112	THE THORN I AM ALONE TO SEE MAN AND THE SECOND STATE OF THE SECOND
Titlevi is s	y condition:
	Stalemera
	else:
	at atomort
	else:
\rightarrow	Example 11: W.A.P. to check that entered number
	us pos/neg/zena
	n = int (input ("Enter n:"))
	y n>=0°
	ij nro:
	else:
	else:
	print ("zoro")
	else:
	print ("Neg")







Example 14: WAP to average 3 number in avending Onden. a = int (input ("Enter number: ")) b = int (input ("Enter number: ")) c= int (input ("Enter number: ")) y a < b and a < c: print (o,b,c) else:

cly c < a and c < b:

y a < b:

print C Parample 15: WAP to average 3 numbers in descending onden. 0=int (input ("Enter number:")) b = int (input (" Enter number: ")) (= int (input (" Enter number :"))

