```
10. U= input ("Enter a special character:")
   y (v=="-", v=="!", v=="@", v=="#", v=="5",
      U== "*"):
      Print (U, "is a special character")
    Clse:
      Print (U, " not a special character")
 Day Rum:
  Enter a Special character: A (value asking)
Condition Check → if → "v=="-", v=="!", v=="@" v=="#"
 U== '$" U== "*" } -> False
else -> Torue
Outbut -> A not a Special Character
11. for i in range (1,101):
       y 1%3==0 and 1%5!=0;
          Benelia enderey
           Print(i)
       clse:
           Point ("No number")
Day oun:
   (= 1 -> 1%3 (Feelse) 10 90/05 (Toured)
           -> i % 3 (False)
   i = 3 -> i % 3 (True) -> i % 5 -> False
   iz 100 -> i%100 (False)
 oulp w -> 3 FCR 9
```

9 that I whe had 12. or int (input ("Enter a no. : ")) total=0 Print (+Otel) · 6/w 1 to 5 far i in songe (1,7): i= 1 -> Falloc h 27 125 -> False 1=2 - Touc (=3 -> Paulse 1 10/02==0: +0+0+= i 3 True Sum -> 2+4 audput ->6

```
13 - n= int (input (" Entera number: "))
    total = 0
    for i in sange (1,n)
        il 10/02 != 0:
          total + = i
     Print (total)
 Day sun :-
  input = 10
  i=1 -> True
                                  is 5 - True
                   i=3 -> Trace
                   i=4 -> false
  1'=2 -> False
                                  126 -> False
  i= 9 -> Touc
 Sum of True Conditions -> 1+3+5+7,9
 Output -> 25
14. int [input (" Enter a no ! "))
       far i in range (1,11):
           Brint (t,"*",i,"=",t*i)
Dry Run !-
  input -> 3
 t semains some and i will change till sange.
supput ->
   3 * 1 = 3
   3 * 2 = 6
   3 + 3 = 9
   3 * 4 = 12
   3 * 5 = 15
   3 × 6 = 18
   3* 7 = 21
   3 7 8 - 24
```

3 + 9 = 27

```
Point
15. n= int (input ("Enter a no.: "))
       if U>1:
          for i in range (2,n)!
                if no/01==0:
                   Print (" Not prime")
                else:
                    Print ("Prime")
          else'.
              Print ("Not prime")
ary orun !-
input = 7
Conditions checking -> n71 -> True
for 100p -> 7%i!=0 n%i==0 -> False
Conditional check for else -> True
```

output -> Prime

16. i= int (input ("Enter a no.:"))

fact = 1

far j in vanje (1,1+i):

fac+*=j

Print (fact)

Dory onun;

input → 6

far loop → fac+*=j(1,213,415.6)

j=1 → 1*1 = 1

j=2 → 1*2 = 2

j=3 → 2*3 = 6

j=4 → 6*4 = 24

j=5 → 24*5 = 120

j=6 → 120*6 · 6720

Output -> 720

```
Condition check - if - True
                                                                                                     input - (88 Aitin
Output -> Palindrome
                                                                                                                                                                                                                                                                                                                                                                       Dong Run in
                                                                                                                                                                                                                                                                                     18. n= int linp
                                                                                                                                                                                                                                                                                                                  Output -> 50
                                                                                                                                                                                                                                                                                                                                        fact= 0 Stanting
                                                                                    = n - pod = n
                                                                                                                                                                                                                                              n= input ("Enter Character:")
                                                                                                                                                                                                                                Poul = " "
                                                                                                                                      else:
                                                                                                                                                                                                              for in in range (1,7):
                                                                                                                                                                                                                                                                                                                                                                                                                                                 fact = 0
                                                                                                                                                                                                                                                                      ar input ("Enter a num.
                                                                                                                                                                                                                                                                                                                                                                                                                               for j in songe (1,14):
                                                                                                                                                                                                                                                                                                                                                                                                                                                              i = int (input ("Enter a number: "))
                                                                                                                                                                        n== pod;
                            Pal " nitio
                                                                                                                                                        Rint ("Palindrone")
                                                                                                                                                                                             Pall = Pall + i
                                                       > Post = nit
                                                                       9 Pal=ni
                                                                                                                                                                                                                                                                                                                                                                                                            fac+= 1
                                            > Pal = niti
                                                                                                                                                                                                                                                                                                                                           1:1 10
```

Paint (a,"+", b,"=", a+b) odzint (input ("enter term!")) Q+9 = 9,0+0 fas in o. 011 = 910 20. int 20.

Day Sun!

1 = 0 + 1 andona

1 -+ 0

Egy 1 1183

1. & n = int (input ("Enter ano :")) ig noo: brint ("Positive no.") elif n<0; Print ("Negative no.") else : Print ("zero") Doy oun;
Center a no.: 16 Positive no. n=16 (assing value) Condition Check: n>0 - True output -> Positive no. 2. n = int (input ("Enter a no.: ")) if n%2=0; Print ("Even") else; Print ("odd") Day oun !n= 3 (assing value) Condition check -> no/o 2 == 0 -> false Else -> True Output = odd

3. n = int (input ("Enter an age: ")) if n>=18: Brint (" You Can Vote") else: Brind ("You Connot vote")

n= 12 (assing value)

Condition check -> n>=18 -> False Now Condition check in else - Torue output -> You Cannot vate

9. nl= int (input ("Enter first no.!")) n2 = int (input ("Enter Second no.: ")) Print (n1," is largest no!")

else:

Print (n2, " is larger no.")

mi = 36 Enter first no.: 36 } value assing} Enter Second no.: 42

Condition check in if -> n1>n2 -> False Alow, in Boz if Condition is false, Condition check in else -> True output -> 42 is larger no.

```
n1 = int (input ("Enter first no.: "))
    n2 = int (input ("Enter Second no.: "))
    n3 = int (input ("Enter Third no .: "))
   if ni >n2 and ni>n3:
       Print (n1, "is larger of three no.")
  elif ne>n1 and n3>n1:
      Print (n2," is larger of three no.")
  else:
       Brint (n3, " is larger of three no.")
 Enter first no! 54
                           (value assing)
 Enter Second no.: 61
Enter Third no. : 732
Condition check -> if -> n1>n2 and n1>n3 -> False
bcz if Condition is false, now it will check in elif
ely -> ne>n1 and ne>n3 -> False
again false, now in else
else -> atome
output -> 73 is larger of three no.
```

Somon - making o. a. ? (put ("Enter on alphabel : ") Clack Genelition -> a== "e" Day aun! y (a=="a", a=="e", a=="i", a=="0", a=="u"); Print (" vowel") Brint ("Consonant")

7. y = int (inped ("Enter a year: "))

10==001% R

9 % 100 == 0: Brint (" leap year")

Brint (" Not a leap year")

10== H% A Brist (" Leap year")

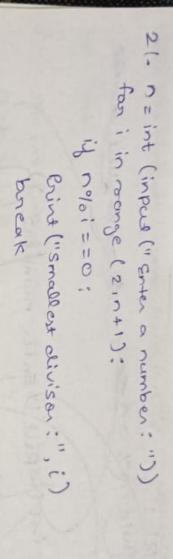
Brind ("Not a leap year")

Now Condition -> 4%400==0 -> False Dong sun! - {value aning)

In else condition -> True Now ingain in elig Now in the elig elig - you 4==0 -> False

output -> Not a leap year

```
m = int (input (" enter a number:"))
  y m% s == 0 and mololl==0:
      Print (m, "Divisible")
  else:
      Print ("Not Divisible")
 Day sun!
 Enter a number: 55 (value assig)
Condition check -> mº105=0 and mº10=116-> Torus
 output -> 55 Divisble
9. m z int (input ("Mark of a Student: "))
   if m>=90:
      Print ("A")
  elif 89>=m>=75:
      Print ("B")
  elig 747=m7=50;
       Brint ("c")
   else:
      Print ("Feeil")
 Day Bran :-
  m = 88 (value oussing)
 Enter a Mark of a Student: 88
 Condition check -> if -> m >= 90 -> feelse
 else -> 89>=m>=75 -> True
 output -> B
```



input > 5

Condition Check > t=2

Condition C

Crint ("Enter a number:")

i = Jen(a)

Crint ("Number is: ", a, "And digit occurrence is:"

i)

Doy own:

input -> 537423

Len -> used to Count digit in alphabet or any character.

no use of float, int in Jen only Stor work.

Outbut -> Number is: 537423 And digit occurance

us: 6



23. def hcf (a,b): ¥ a == 0: creturn b if b==0; vieturn a while: a, b = b, a%b a neturn a Brint (hcf(64,52)) Day wan it was brooks to the state of Capo a = 64 b = 52 a==0 - False b==0 -> felse Condition in while! a=b -> 52 b = a0/0b -> 12 HCF (52,12) b2 0100 -> 4 MCF (12,4) b = a 0/0b -> (4,0) v = waters

30. no int (input ("Enter or number: ")) for i in range (1, n): Print (" "*(i*3) + "*" *3) Day sun != input -> 7 for 100p -> i -> 1-6 i=1 -> ** CORON --- B times Byon Co ---- Gime Space & Soon. output -> *** 2) Stairs

