```
an West of the
                     ii) Aeresgonie il e
                Python
```

G=X

```
print () To paint the content.
                        TUTY
                     print (x)
Variable.
  a = 10
                          8 = - x.
  b = 20
                    print(x)
print (a, b) // 0/P: 10 &0.
prin+ (id(a), id(b)) // olf 140819838
                 1308.34689
memory address.
Rules to create variables:
                     UPPEN CASE / LOWENCASE/
- Name Starts with
                         dela
under score.
             W False hors
                         0 < 5
- can't start with number
                        adb
- No length restriction.
- Reserved wids are not allowed.
- case sensitive a proof (p): por
- Reassign is allowed.
Operatoris de la bone es a
            Operators

prot(a/16) // 4.
i) Anithmetic
                         (place division)
a=20
b= 5
             a 28 07 a 210,
print (a+b) //25
pno+ (a-b) /15
Print (a1b) 1/4:0.
      (a 1. b) 110 (Remainder)
print
       (a **b) // 32,00000.
print
          (20 * 20 $ 20 × 20 × 20 (5 times)
```

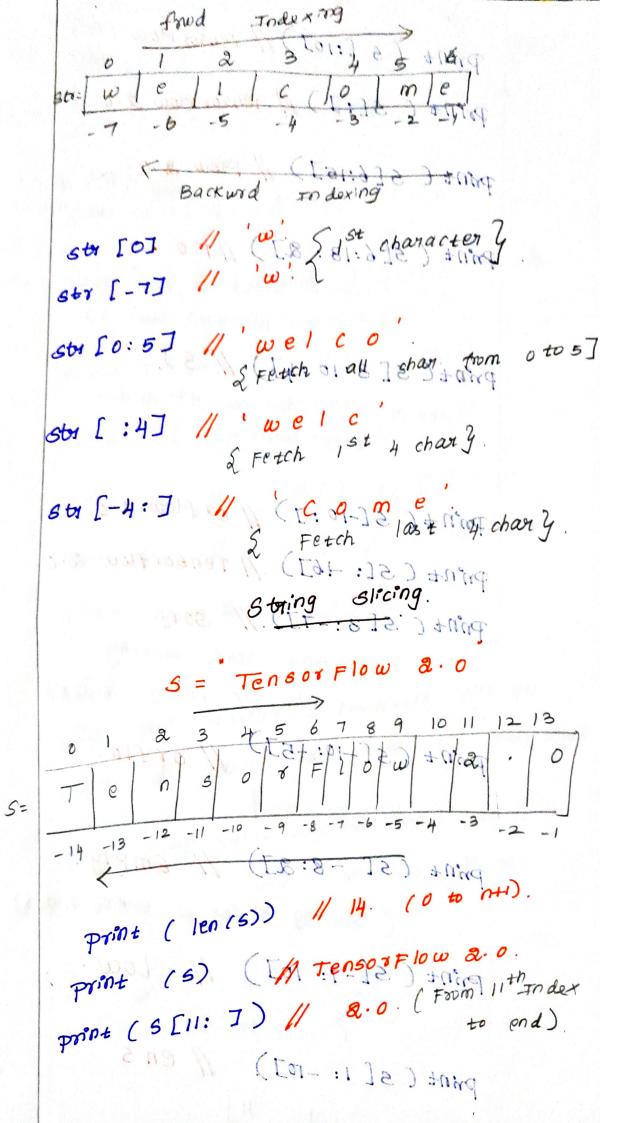
```
is) Assignment operator L= T=
             X=5
            print(x) say / 5
             X+=7
             prin+(x) // 12
                                                                                                           01 = 10
             X-=8
              print(x) // 4.
                                                                                                       b = 80
             isi) companison operator (d)
a = 8
                  Rules to create war ables: 01=d
                                             // Falee.
Name destabline de la de
                 a>b // False
                                                                                              under score
                 a Lb redpropere with shappy d L a
                 a 7 = b // co. Falge 391 (htps:// ON -
                - Reserved wids girt not delived.
                 iv) Logical operator (and, or, not).
                Reassign is answed.
                 a 28 and a 76 // False
da = 55 m and a 26 / False.
                                                                                                                        0 - 20
$10.11 100.2V
                 a 28 or a > 10. // The.
                                                                          bunt (a+p) # 20
                 x!=a // Tole. (d-1) + 0'ng
                  not X!= a. // False.(dla) +ming
                                            (a xx b) 1 33 00000
```

```
operator (m, not m).
   Membership
   X = ' wel come '
  print ('w' in x) // True
  printing ( not in x) // False.
                sequence.
  Identity open ator (15, 1600t).
                           NUMBER OF
                Fellins 4
                           barry ...
   x 88 y // Truequi
   X == 4 // True.
  x 16 not y // False
           operators scand, or xor).
         a= 25 type (a) 1 parts
   Touth table
                 B A BALLER TOPE CO
              AXB
        B
    A
    0
       0
                        1860 A MOOCE
       1 111
                   X= teel come,
    11/21/
   X = 10 4 = 18) 99 pd " welcome " x = X
   print C X & Sypt 1/8
   print (x 1 8) // 10 smott
   print CX ^ y) // &.
                  X = "welcome"
X = X X 5 () Sections we come we have
```

(Kell (1911)) Gen (1911)

1

```
Data types.
(10) me 111.
                     X = Wel conse
                      (m') + 1789
               (x) 113
                    Dictionary Ming Set
            (x a) 4001
           sequence
              type (Mutable)
Numeric
 Int
           - staing
           - List (Matable) & Olax
           - Tuple
 Numeric Datatype .. y don of x
a = 10 betype (a) // Int
 a= 2.5 type (a) // Float 5890 478
a=1+23 type (a) // complex.
sequence type ..
a) string # "
x= 'welcome' type(x) //sta
X = "welcome" type (X) / / Sty = X
            type(x) x // sty
x = " welcome
       Home " (8 1 x) +11000
              bull cx v A)
 x = "welcome"
 X = X * 5 // welcome welcome welcome
                uelcome velcome.
```



```
Print (5 [:10]) // Jenson Flow (Before
                               last Index
Print ( 5[:]) // Tensor Flow 2.0 (whole string)
print ( 5[6:15]) // Flow & .O.
                       (From 6th Index
                           to last Index- U
Print (5[6:13: 2]) // FO 10] +12
        1 From 6th Index to Past Index -1 ie,
       12 th Index with step count 1).
print( 5[ 3:10:4]) // 5 1 2:0] WZ
   ( From 3 th Index to 9th Index,
          Step count = 3) [H: ] MA
Print ( S[-10:7) // 01 flaw: 8-0. 11)
print (5[: 46]) // Tensor flow 2.0.
Print ( S[3:-7]) // SOIF.
(In this case, starting
Index must be > ending Index)
Print (5[-10:-5]) // orflo.
   (-10 to -4]
print (5[ -8:2]) // Empty.
       ( Starting Findex / Ending Index)
print (S[-7: 10]) // Low.
print (s[1:-10]) // ens
           [1:-11]
```

```
print(5[-3:-9:-1]) // & wolf.
prin+ (5[-2:-13:-3]) //. wfs.
Prin+ (5[4: -2:3]) //OL-
print (5 [2:-1:2]) // nofo.
print (5[-2:1:-4]). // · DO.
print (5[ a::-a]) // nT
print (5[-10:: 2]) // 0fo.
print (5 [5 ::3]) // 402
print (5[-2::-4]).//.00T.
If the Start, Step value are go,
Note.
then dir will be dete by step value
 If Step value -> +ve -> Lto R.
            Ly -ve -> R to L.
      X. .
```