POORNIMA

Assignment-2

\* Scope of variable:

To python variables are the containers for storing data valuer. Then or declare their type

A variable is created the moment we first assign a value to it. The location where we can find a variable and also access if it if required is called the scope of a variable. \* local variable--> local variables are those that are initialized within a function of are unique to that function. function. be def fun (): // function

the local variable

a = " Chirag" Fun () // function Call Olp - Chirag

* Calabel will	
* Global variable o-	POORNINA  Huliplication, matrix, division, L>R  Hoor division, gamainder  L>R
I alobal variables are the one u	POORNIMA Huliplication, matrix, division,
I cared outside any function that are defined and	floor division, gamander  L>R
	Addition of Culstraction 1->R
I am de used by any post I'm	130h
Exi def fun(); -> Il fourtiement	chips
ay pun();	L->R
# Global scape	RI+WIX WALL
print (a)  # Global scope  a = 4 chinag"  (mm C) // Smuchion Call	Br Bitoxe XOR LOR
(unc) Il function Call	BA Ritake Aug
alo - Chisa	VIE-8:- Characters like digits, latin
O/P -> Chirag	Basic ASCII characters like digits, latin  - Rasic ASCII characters like digits, latin
* Operator Precedence & Associativity:	tharacter 1 t. which is identical
	· 1 acc · au one byte
Precedence Operators Description Associativity = 1 () Parenthese L > R	ASCII supresentation.  ASCII supresentation.  This wall all US-ASCII strings become valled  OTE-8 which provides decent backwards
	Callle
2 × [index], ×[index: index] Subscription, Slicing L→R	Compatability with allows to me mult
12	I No wall byte this introducer a great
3 await X Await expression NA _	deal of backwards Compatability too
4 ** Exponentation R>L	deal of backwards Compatability to.  DIF 8 is independent of byte order, so you don't have to worry about Rig Endian little tradian issue.
	don't have to worry acres
5 +,-,~ Positive, regative, R->L _ bitroise MOT _	Englaw Issue.
bitraise MU	Page No

\* UTF-16:
> BMP (Basic multilingual Plane) Characters, latin,
Cyrillic, most Chinese (the PRC mode support
for some Codepoints outside BMP mandatory), most

Japanese can be supresented with 2 byter.

> This speeds up indexing & calculating Codepoint Count
in case the text does not Contain Suplementary
Characters.

> Even if the text has supplementary characters, they
are still represented by pairs of 16-bit valuer, which
means that the total length is still divisible by two
I allows to use 16-bit char as the primitive
Component of the string.

the action was allowed to

```
#WAP to find out whether a number is positive negative or neutral.
[4]
    x=int(input("Enter value of x:"))
    if(x>0):
      print("Number is positive")
    elif(x<0):
      print("Number is negative")
     else:
      print("Number is zero")
    Enter value of x:0
    Number is zero
    #WAP to find out all the odd numbers
    a=int(input("Enter value of a:"))
    if(a%2==0):
      print("Number is even")
    else:
      print("number is odd")
    Enter value of a:7
િ∌ા
    number is odd
```

```
#WAP to take 5 int input from a user and find out its average
       a=int(input("enter value of a:"))
       b=int(input("enter value of b:"))
       c=int(input("enter value of c:"))
       d=int(input("enter value of d:"))
       e=int(input("enter value of e:"))
       print("Average is:",(a+b+c+d+e)/5)
   c→ enter value of a:4
       enter value of b:5
       enter value of c:7
       enter value of d:8
       enter value of e:9
       Average is: 6.6
[9] #WAP to take a float input from a user in terms of weight(kg) and convert it into pound.
       x=float(input("enter weight in kg:"))
       y=0.45359237
       1b=x/y
       print(1b)
       enter weight in kg:78
       171.9605645042045
```

```
[13] #WAP to take a float input from a user in terms of height(feet & inches)(5.4).
       #if user enter 1 then print height into inches.
       #if user enter 2 then we have to print height in centimeters.
       #if user enter 3 then print height into meters.
       ch=int(input("enter your choice:"))
       x=float(input("enter height:"))
       if(ch==1):
         inch=(x*12)
         print("Height in inches is:",inch)
       elif(ch==2):
         centimeter=(x*12)*2.54
         print("Height in cm is:",centimeter)
       elif(ch==3):
         meter=(x*0.3048)
         print("Height in meter is:", meter)
       enter your choice:3
       enter height:6.2
       Height in meter is: 1.88976
```