

ERRORS IN PYTHON:-

- 1.syntax error:- syntax errors are occurred when we forgot :,;, "", ''.
- 2.value error or name error or attribute error:- we are given a,b,c values and enter d value then this type of errors are occurred.
- 3.indentation error or space error:- these are occurred in(loops,conditional statements)

PRINT FUNCTION:-

- print is used for displaying information/text
it is two types
- 1.value print
 - 2.message with value print

```
In [1]: a=12
print(a) ----->value

12
```

```
In [3]: a =12
print('value of a=',a) ----->message with value

value of a= 12
```

```
/* if we want to know the type of the string */
```

```
In [13]: st="1 2 3"
print(type(st))

<class 'str'>
```

```
In [8]: print(st,type(st),id(st))

1 2 3 <class 'str'>2309053313456
```

```
/* if we want to convert string to integer */
```

```
In [17]: st = "1 2 3"
print(int(st))

-----
ValueError                                Traceback (most recent call last)
<ipython-input-17-11727d25434a> in <module>
      1 st = "1 2 3"
----> 2 print(int(st))

ValueError: invalid literal for int() with base 10: '1 2 3'
```

VARIABLE:-

variable is a condition is used to store the data/value.

```
In [18]:  a=10
          print(a)
```

10

```
In [19]:  print(a,type(a),id(a))
```

10 <class 'int'> 140721965840448

```
In [20]:  b=10
          a==b
          print(a,type(a),id(a))
          print(b,type(b),id(b))
```

10 <class 'int'> 140721965840448

10 <class 'int'> 140721965840448

=> assignment
==>comparision

variables assignment are two types

- 1.multi value assignment
- 2.multi variable assignment

```
In [21]:  a=10          * multi value assignment *
          b=10
          a=b=10
          print(a,type(a),id(a))
          print(b,type(b),id(b))
```

10 <class 'int'> 140721965840448

10 <class 'int'> 140721965840448

```
In [22]:  num1=30       * multi variable assignment *
          num2=40
          print(num1,type(num1),id(num1))
          print(num2,type(num2),id(num2))
```

30 <class 'int'> 140721965841088

40 <class 'int'> 140721965841408

DYNAMIC READING:-

- 1.input():- is used to read the string values.
- 2.int(input()):-is used to read the integer values.
- 3.float(input()):- is used to read the float values.

TYPE CASTING:-

converting one type of data into another type of data.

```

1.int to float
2.float to int
3.int to string
4.string to int

```

```

In [24]:  n=10
          print(float(n),type(n),id(n))

10.0 <class 'int'> 140721965840448

```

```

In [25]:  f=10.3
          print(int(f),type(f),id(f))

10 <class 'float'> 2309052491760

```

```

In [27]:  s='123'
          print(s,type(s),id(s))

123 <class 'str'> 2309053396912

```

```

In [28]:  name='king'
          print(int(name))

```

```

-----
ValueError                                Traceback (most recent call last)
<ipython-input-28-b4cd6d090170> in <module>
      1 name='king'
----> 2 print(int(name))

ValueError: invalid literal for int() with base 10: 'king'

```

```

write a program to perform an airthematic operatos
m=4
n=5

```

```

In [29]:  m=4
          n=5
          print("add of two values is",m+n)
          print("sub of two values is",m-n)
          print("mul of two vales is",m*n)
          print("div of two values is",m/n)

add of two values is 9
sub of two values is -1
mul of two vales is 20
div of two values is 0.8

```

```

3*8=24 read these two numbers
multiplication of 3 and 8 is 24

```

```
In [30]: ▶ m=int(input())  
          n=int(input())  
          print('multiplication of','m','and','n','=',m*n)  
  
          3  
          8  
          multiplication of m and n = 24
```

```
In [ ]: ▶
```