TASK-1 Working with number and text(strings)

In [1]:
```
variable= 'value'
```

In [2]:
```
v=5
v
```

Out[2]:
```
5
```

In [3]:
```
id(v)
```

Out[3]:
```
140726502828600
```

In [4]:
```
1v=5  # here variable doesn't start with a number but it ends with the number
```

```
  Cell In[4], line 1
    1v=5
    ^
SyntaxError: invalid decimal literal
```

In [5]:
```
v1=10
v1
```

Out[5]:
```
10
```

In [6]:
```
v2=15
v2
```

Out[6]:
```
15
```

In [7]:
```
type(v1,v2) # here there is an error because type()- is a function it takes 1 or
```

```
---------------------------------------------------------------------------
TypeError                                 Traceback (most recent call last)
Cell In[7], line 1
----> 1 type(v1,v2)

TypeError: type() takes 1 or 3 arguments
```

In [8]:
```
type(v1)
```

Out[8]:
```
int
```

In [9]:
```
a=10
A
```

```
---------------------------------------------------------------------------
NameError                                 Traceback (most recent call last)
Cell In[9], line 2
      1 a=10
----> 2 A

NameError: name 'A' is not defined
```

In [10]:
```
v@=4    # In This one the Special char are not Allowed in Variable
v@
```

```
  Cell In[10], line 2
    v@
      ^
SyntaxError: invalid syntax
```

In [11]:
```
v_=20          # only underscore(_) is allowed
v_
```

Out[11]:
```
20
```

RESERVED WORD

In [13]:
```
import keyword
keyword.kwlist
```

Out[13]:
```
['False',
 'None',
 'True',
 'and',
 'as',
 'assert',
 'async',
 'await',
 'break',
 'class',
 'continue',
 'def',
 'del',
 'elif',
 'else',
 'except',
 'finally',
 'for',
 'from',
 'global',
 'if',
 'import',
 'in',
 'is',
 'lambda',
 'nonlocal',
 'not',
 'or',
 'pass',
 'raise',
 'return',
 'try',
 'while',
 'with',
 'yield']
```

In [14]:
```
len(keyword.kwlist)
```

Out[14]: 35

In [15]:
```
else=6          #keywords are reserved word they cannot be define in a Variable
else
```

```
  Cell In[15], line 1
    else=6
    ^
SyntaxError: invalid syntax
```

VARIABLE / IDENTIFIER / OBJECT

In [17]:
```
v=5
v1=7.9
v2='apple'
v3=True,False
v4=10+5j
```

In [21]:
```
print(type(v))
print(type(v1))
print(type(v2))
print(type(v3))
print(type(v4))
```

```
<class 'int'>
<class 'float'>
<class 'str'>
<class 'tuple'>
<class 'complex'>
```

In [ ]:

Strings

In [23]:
```
a='i am new learner'
a
```

Out[23]: 'i am new learner'

In [24]:
```
a=" i am new learner"
a
```

Out[24]: ' i am new learner'

In [26]:
```
a=''' i am new learner'''  # it is move through (\n) if we are having multi line
a
```

Out[26]: ' i am new learner'

In [27]:
```
import math
```

In [28]:
```
math.pi
```

Out[28]:
```
3.141592653589793
```

In [29]:
```
math.ceil
```

Out[29]:
```
<function math.ceil(x, /)>
```

In [30]:
```
math.floor
```

Out[30]:
```
<function math.floor(x, /)>
```

In [31]:
```
s="hello Naresh it"
s
```

Out[31]:
```
'hello Naresh it'
```

In [32]:
```
s[0]
```

Out[32]:
```
'h'
```

In [33]:
```
len(s)
```

Out[33]:
```
15
```

In [34]:
```
s[:15]
```

Out[34]:
```
'hello Naresh it'
```

In [38]:
```
s[0:15:1]
```

Out[38]:
```
'hello Naresh it'
```

In [ ]:
```

```