```
Variables
 In [5]:
          a=10
          b=20
          a+b
          print(a+b)
         30
         String
 In [9]:
          # double quote
          s="arya"
          print(s)
          # single quote
          s1='arya'
          print(s1)
          # triple quote
          s2='''
          a
          ry
          a'''
          print(s2)
          # advantage with triple quote is we can print in diff lines without explicitly mentioning it
         arya
         arya
         a
         ry
         String Indexing in 'python'
In [14]:
          s="arya"
          print(s[0])
          print(s[1])
          print(s[2])
          print(s[3])
          print()
          print(s[-1])
          print(s[-2])
          print(s[-3])
          print(s[-4])
         a
         У
         а
         а
         У
In [16]:
          s='''My
          Is
          Arya'''
          # print(s)
          S
          'My\nName\nIs\nArya'
Out[16]:
         How Strings are stored
In [20]:
          s="arya"
          a="arya"
          print(id(s))
          print(id(a)) # addresses where it stores "arya" are same in case of a and s both
         2335726790768
         2335726790768
         Immutability of strings in Python
         strings are immutable in Python, we can retrieve a char from a string but cannot modify that position of the string
        Functions on strings
         split
In [25]:
          str="my name is arya"
          li=str.split() # automatically splits on the basis of space if no arguments passed
          print(li)
          str1="my, name, is, arya"
          li1=str1.split(',')
          print(li1)
          li2=str1.split(',', 1) # the other argument allows us to split the pecified number of times
          print(li2)
         ['my', 'name', 'is', 'arya']
['my', 'name', 'is', 'arya']
['my', 'name,is,arya']
         replace
In [34]:
          str="my name is arya"
          str1 = str.replace("arya", "tito")
          print(str) # will not make any change in original string (due to immutability principle)
          print(str1)
          str2 = str.replace("arjo", "tito") # no "arjo" present
          print(str2)
          strx="my name is arya arya"
          strx1 = strx.replace("arya", "tito")
          print(strx1)
          strx2 = strx.replace("arya", "tito", 2) # specifying the no. of times we want to change
          print(strx2)
         my name is arya
         my name is tito
         my name is arya
         my name is tito tito tito
         my name is tito tito arya
         find
In [42]:
          str="my name is arya"
          idx = str.find("na");
          print(idx) # returns the start index if substring is present
          idx1 = str.find("nae") # else returns -1
          print(idx1)
          str1="my name is arya arya"
          idx2 = str.find("arya")
          print(idx2)
          idx3 = str1.find("arya", 12, 20) # from 12 to 20 if "arya" is present
         3
         -1
         11
         16
         lower and upper
In [47]:
          str="my name is arya"
          str1=str.lower();
          str2=str.upper();
          print(str1)
          print(str2)
         my name is arya
         MY NAME IS ARYA
         starts-with
In [52]:
          str="my name is arya"
          ans=str.startswith("my", 3, 10)
          ans1=str.startswith("my")
          print(ans)
          print(ans1)
         False
         True
```

Print Hello World!

Hello World!

print("Hello World!")