jupyter Untitled Last Checkpoint: 10 minutes ago (unsaved changes)

Logout

File Edit View Insert Cell Kernel Widgets Help Trusted Python 3

Run Code

Accessing String elements

In [1]:
```
# Strings are immutable objects
# Strings are sequence objects

#          01234567890123
aString = "This is a Game"
#         -43210987654321
```

In [ ]:

SHEIKH ISRAR AHMED ANSAR HUSSAIN

BITS Pilani

jupyter Untitled Last Checkpoint: 10 minutes ago (unsaved changes)

Logout

File Edit View Insert Cell Kernel Widgets Help Trusted Python 3

Run Code

Accessing String elements

In [1]:
```
# Strings are immutable objects
# Strings are sequence objects

#          01234567890123
aString = "This is a Game"
#         -43210987654321
```

In [2]:
```
# Number of elements in a String
len(aString)
```

Out[2]: 14

In [ ]:

SHIVESH SINGHAL

BITS Pilani

jupyter Untitled Last Checkpoint: 11 minutes ago (unsaved changes)

File Edit View Insert Cell Kernel Widgets Help Trusted Python 3

Run Code

In [2]:
```
# Number of elements in a String
len(aString)
```

Out[2]: 14

In [3]:
```
#Accessing a particular element
aString[3]
```

Out[3]: 's'

In [4]:
```
aString[-11]
```

Out[4]: 's'

In [ ]:
```
print(aSt
```

BITS Pilani

jupyter Untitled Last Checkpoint: 12 minutes ago (unsaved changes)

File Edit View Insert Cell Kernel Widgets Help Trusted Python 3

Run Code

In [2]:
```
# Number of elements in a String
len(aString)
```

Out[2]: 14

In [3]:
```
#Accessing a particular element
aString[3]
```

Out[3]: 's'

In [4]:
```
aString[-11]
```

Out[4]: 's'

In [ ]:
```
#          01234567890123
aString = "This is a Game"
#         -43210987654321
print(aString[-4])
print(aString[10])
```

BITS Pilani

jupyter Untitled Last Checkpoint: 13 minutes ago (unsaved changes)

File Edit View Insert Cell Kernel Widgets Help Trusted Python 3

```
#          -4321098765432I
print(aString[-4])
print(aString[10])
```

```
G
G
```

String Slicing

In [ ]:
```
## Syntax

# aString[start : end : step]

#start - defaults to 0
# end - Not inclusive
# step - optional
```

RAVI ALAWADHI
yes, its on canvas

BITS Pilani

jupyter Untitled Last Checkpoint: 14 minutes ago (unsaved changes)

File Edit View Insert Cell Kernel Widgets Help Trusted Python 3

Run Code

In [6]:
```
## Syntax

# aString[start : end : step]

#start - defaults to 0
# end - Not inclusive
# step - optional
```

In [7]:
```
#          01234567890123
aString = "This is a Game"
#         -43210987654321
```

In [8]:
```
aString[0:3]
```

Out[8]:
```
'Thi'
```

In [ ]:

jupyter Untitled Last Checkpoint: 14 minutes ago (unsaved changes)

File Edit View Insert Cell Kernel Widgets Help Trusted Python 3

Run Code

In [6]:
```
## Syntax

# aString[start : end : step]

#start - defaults to 0
# end - Not inclusive
# step - optional
```

In [7]:
```
#          01234567890123
aString = "This is a Game"
#         -43210987654321
```

In [8]:
```
aString[0:3] #3 not inclusive
```

Out[8]:
```
'Thi'
```

In [ ]:

MANOJ KUMAR

BITS Pilani

jupyter Untitled Last Checkpoint: 16 minutes ago (unsaved changes)

Logout

File Edit View Insert Cell Kernel Widgets Help Trusted Python 3

Run Code

In [7]:
```
#           01234567890123
aString = "This is a Game"
#          -43210987654321
```

In [8]:
```
aString[0:3] #3 not inclusive
```

Out[8]: 'Thi'

In [9]:
```
aString[10:] #If end number is omitted, it defaults to end of the String
```

Out[9]: 'Game'

In [10]:
```
aString[ : 7] #If you omit start number, it defaults to zero
```

Out[10]: 'This is'

In [11]:
```
aString[2:12:2] # 2 thru 11 with a step value of 2
```

Out[11]: 'i saG'

In [ ]:

BITS Pilani

jupyter Untitled Last Checkpoint: 16 minutes ago (unsaved changes)

Logout

File Edit View Insert Cell Kernel Widgets Help Trusted Python 3

Run Code

In [7]:
```
#           01234567890123
aString = "This is a Game"
#          -43210987654321
```

In [8]:
```
aString[0:3] #3 not inclusive
```

Out[8]: 'Thi'

In [9]:
```
aString[10:] #If end number is omitted, it defaults to end of the String
```

Out[9]: 'Game'

In [10]:
```
aString[ : 7] #If you omit start number, it defaults to zero
```

Out[10]: 'This is'

In [11]:
```
aString[2:12:2] # 2 thru 11 with a step value of 2
```

Out[11]: 'i saG'

In [ ]:

BITS Pilani

jupyter Untitled Last Checkpoint: 17 minutes ago (unsaved changes)

Logout

File Edit View Insert Cell Kernel Widgets Help Trusted Python 3

Run Code

```
In [8]: aString[0:3] #3 not inclusive
Out[8]: 'Thi'

In [9]: aString[10:] #If end number is omitted, it defaults to end of the String
Out[9]: 'Game'

In [10]: aString[ : 7] #If you omit start number, it defaults to zero
Out[10]: 'This is'

In [11]: aString[2:12:2] # 2 thru 10 with a step value of 2
Out[11]: 'i saG'

In [ ]:
```

SHADANGI SABYASACHI

BITS Pilani

jupyter Untitled Last Checkpoint: 18 minutes ago (unsaved changes)

File Edit View Insert Cell Kernel Widgets Help Trusted Python 3

String Slicing

In [6]:
```
## Syntax

# aString[start : end : step]

#start - defaults to 0
# end - Not inclusive
# step - optional
```

In [7]:
```
#          01234567890123
aString = "This is a Game"
#         -43210987654321
```

In [8]:
```
aString[0:3] #3 not inclusive
```

Out[8]: 'Thi'

In [9]:
```
aString[10:] #If end number is omitted, it defaults to end of the String
```

Out[9]: 'Game'

jupyter Untitled Last Checkpoint: 18 minutes ago (unsaved changes)

File Edit View Insert Cell Kernel Widgets Help Trusted Python 3

Run Code

```
Out[8]: 'Thi'

In [9]: aString[10:] #If end number is omitted, it defaults to end of the String
Out[9]: 'Game'

In [10]: aString[ : 7] #If you omit start number, it defaults to zero
Out[10]: 'This is'

In [11]: aString[2:12:2] # 2 thru 10 with a step value of 2
Out[11]: 'i saG'

In [ ]: aString[: : 3] # Omit start and end - Complete String is taken for slicing
```

jupyter Untitled Last Checkpoint: 18 minutes ago (unsaved changes)

Logout

File Edit View Insert Cell Kernel Widgets Help Trusted Python 3

Run Code

```
In [10]: aString[ : 7] #If you omit start number, it defaults to zero
Out[10]: 'This is'

In [11]: aString[2:12:2] # 2 thru 10 with a step value of 2
Out[11]: 'i saG'

In [ ]: #          01234567890123
        aString = "This is a Game"
        #         -43210987654321

In [12]: aString[: : 3] # Omit start and end - Complete String is taken for slicing
Out[12]: 'Tss m'

In [ ]:
```

BITS Pilani

jupyter Untitled Last Checkpoint: a few seconds ago (autosaved)

Logout

File Edit View Insert Cell Kernel Widgets Help Trusted Python 3

Run Code

In [10]:
```
aString[ : 7] #If you omit start number, it defaults to zero
```

Out[10]: 'This is'

In [11]:
```
aString[2:12:2] # 2 thru 10 with a step value of 2
```

Out[11]: 'i saG'

In [ ]:
```
#          01234567890123
aString = "This is a Game"
#         -43210987654321
```

In [12]:
```
aString[: : 3] # Omit start and end - Complete String is taken for slicing
```

Out[12]: 'Tss m'

In [ ]:

GODHANIA HIRAL PARESHBHAI
Sir not clear step concept. Plz repeart

BITS Pilani

jupyter Untitled Last Checkpoint: 2 minutes ago (autosaved)

Logout

File Edit View Insert Cell Kernel Widgets Help Trusted Python 3

Run Code

Out[10]: 'This is'

In [11]:
```
aString[2:12:2] # 2 thru 10 with a step value of 2
```

Out[11]: 'i saG'

In [ ]:
```
#          01234567890123
aString = "This is a Game"
#         -4321098765432 1
```

In [12]:
```
aString[: : 3] # Omit start and end - Complete String is taken for slicing
```

Out[12]: 'Tss m'

In [ ]:
```
aString[]
```

BITS Pilani

jupyter Untitled Last Checkpoint: 3 minutes ago (unsaved changes)

File Edit View Insert Cell Kernel Widgets Help

Trusted | Python 3

Run | Code

```
In [11]: aString[2:12:2] # 2 thru 10 with a step value of 2
Out[11]: 'i saG'

In [ ]: #          01234567890123
        aString = "This is a Game"
        #         -43210987654321

In [12]: aString[: : 3] # Omit start and end - Complete String is taken for slicing
Out[12]: 'Tss m'

In [13]: aString[-14:-10]
Out[13]: 'This'

In [ ]:
```

MITHILESH KUMAR

BITS Pilani

jupyter Untitled Last Checkpoint: a few seconds ago (autosaved)

File Edit View Insert Cell Kernel Widgets Help Trusted Python 3

Run Code

In [12]:
```
aString[: : 3] # Omit start and end - Complete String is taken for slicing
```

Out[12]: 'Tss m'

In [13]:
```
#Start values should be less than the end value
aString[-14:-10] # Step value defaults to +1
```

Out[13]: 'This'

In [14]:
```
aString[-4:]
```

Out[14]: 'Game'

In [ ]:

BITS Pilani

jupyter Untitled Last Checkpoint: a few seconds ago (unsaved changes)

Logout

File Edit View Insert Cell Kernel Widgets Help Trusted Python 3

Run Code

Out[12]: 'Tss m'

In [13]:
```
#Start values should be less than the end value
aString[-14:-10] # Step value defaults to +1
```

Out[13]: 'This'

In [14]:
```
aString[-4:]
```

Out[14]: 'Game'

String Functions

In [ ]:

POTHULA MARUTHI CHOWDARY
Please take some time and explain negative index ... all

jupyter Untitled Last Checkpoint: 3 minutes ago (unsaved changes)

File Edit View Insert Cell Kernel Widgets Help Trusted Python 3

Run Markdown

In [13]:
```
#Start values should be less than the end value
aString[-14:-10] # Step value defaults to +1
```

Out[13]: 'This'

In [14]:
```
aString[-4:]
```

Out[14]: 'Game'

In [16]:
```
aString[-10:-14:-1]
```

Out[16]: ' sih'

String Functions

In [ ]:

MANEESH GUPTA
if you want to reverse the string, you can -ve indexing.

BITS Pilani

jupyter Untitled Last Checkpoint: a few seconds ago (unsaved changes)

Logout

File Edit View Insert Cell Kernel Widgets Help Trusted Python 3

Run Code

```
Out[13]: 'This'

In [14]: aString[-4:]

Out[14]: 'Game'

In [18]: aString[-5:-14:-1]

Out[18]: ' a si sih'
```

String Functions

```
In [ ]:
```

RAVI ALAWADHI
Thank you sir!

BITS Pilani

jupyter Untitled Last Checkpoint: a minute ago (unsaved changes)

Logout

File Edit View Insert Cell Kernel Widgets Help Trusted Python 3

Run Code

In [18]:
```
aString[-5:-14:-1]
```

Out[18]:
```
' a si sih'
```

String Functions

In [19]:
```
s1 = "coMpuTer sCIenCe and iNFormaTiOn sySTems"

print(s1)
print()
print(s1.upper())
```

```
coMpuTer sCIenCe and iNFormaTiOn sySTems

COMPUTER SCIENCE AND INFORMATION SYSTEMS
```

In [ ]:

PATEL JAY VINÇOKUMAR

BITS Pilani

jupyter Untitled Last Checkpoint: 2 minutes ago (unsaved changes)

File Edit View Insert Cell Kernel Widgets Help Trusted Python 3

```
print(s1.upper())
print(s1.lower())
print(s1.title())
```

```
coMpuTer sCIenCe and iNFormaTiOn sySTems

COMPUTER SCIENCE AND INFORMATION SYSTEMS
computer science and information systems
Computer Science And Information Systems
```

In [22]:
```
s1 = "123"
print(type(s1))
```

```
<class 'str'>
```

In [ ]:

jupyter Untitled Last Checkpoint: 3 minutes ago (unsaved changes)

File Edit View Insert Cell Kernel Widgets Help Trusted Python 3

```
computer science and information systems
Computer Science And Information Systems
```

In [22]:
```
s1 = "123"
print(type(s1))
```

```
<class 'str'>
```

In [23]:
```
s1.isnumeric()
```

Out[23]:
```
True
```

In [24]:
```
s1.isdigit()
```

Out[24]:
```
True
```

In [25]:
```
s1.isalpha()
```

Out[25]:
```
False
```

In [ ]:

jupyter Untitled Last Checkpoint: 3 minutes ago (unsaved changes)

Logout

File Edit View Insert Cell Kernel Widgets Help Trusted Python 3

Run Code

```
Out[23]: True

In [24]: s1.isdigit()
Out[24]: True

In [25]: s1.isalpha()
Out[25]: False

In [26]: s1.isalnum()
Out[26]: True

In [ ]:
```

PIYUSH JOSHI

BITS Pilani

jupyter Untitled Last Checkpoint: 5 minutes ago (unsaved changes)

Logout

File Edit View Insert Cell Kernel Widgets Help Trusted Python 3

Run Code

```
In [28]: s2.isdigit()
Out[28]: False

In [29]: s2.isalpha()
Out[29]: False

In [30]: s2.isalnum()
Out[30]: False

In [ ]: s3 = "Coronavirus"
        s4 = "Yearbook2020"
```

PRASHANT SHUKLA

BITS Pilani

jupyter Untitled Last Checkpoint: a few seconds ago (unsaved changes)

Logout

File Edit View Insert Cell Kernel Widgets Help Trusted Python 3

Run Code

```
In [28]: s2.isdigit()
Out[28]: False

In [29]: s2.isalpha()
Out[29]: False

In [30]: s2.isalnum()
Out[30]: False

In [ ]: s3 = "Coronavirus"
        s4 = "Yearbook2020"

In [ ]:
```

ROHIT JINDAL

BITS Pilani

jupyter Untitled Last Checkpoint: a few seconds ago (unsaved changes)

Logout

File Edit View Insert Cell Kernel Widgets Help Trusted Python 3

Run Code

```
In [29]: s2.isalpha()
```

```
Out[29]: False
```

```
In [30]: s2.isalnum()
```

```
Out[30]: False
```

```
In [ ]: s3 = "Coronavirus"
        s4 = "Yearbook2020"
```

String Splitting and Stripping

```
In [ ]:
```

PRASHANT SHUKLA

BITS Pilani

jupyter Untitled Last Checkpoint: 2 minutes ago (unsaved changes)

File Edit View Insert Cell Kernel Widgets Help Trusted Python 3

```
s4 = "Yearbook2020"
```

String Splitting and Stripping

In [31]:
```
s1 = "\n\tBITS Pilani\n\t "
print(s1)
```

```
	BITS Pilani

```

In [32]:
```
print(repr(s1))
```

```
'\n\tBITS Pilani\n\t '
```

In [ ]:

PRASHANT LAKHANPAL

BITS Pilani

jupyter Untitled Last Checkpoint: 3 minutes ago (unsaved changes)

Logout

File Edit View Insert Cell Kernel Widgets Help Trusted Python 3

Run Code

In [31]:
```
s1 = "\n\tBITS Pilani\n\t "
print(s1)
```

```
	BITS Pilani

```

In [32]:
```
print(repr(s1))
```

```
'\n\tBITS Pilani\n\t '
```

In [33]:
```
#\n, \t , space are called whitespace characters
```

In [ ]:

BITS Pilani

jupyter Untitled Last Checkpoint: 5 minutes ago (unsaved changes)

Logout

File Edit View Insert Cell Kernel Widgets Help Trusted Python 3

Run Code

```
In [33]: #\n, \t , space are called whitespace characters

In [34]: s1.rstrip() #Removes whitespace chars from right
Out[34]: '\n\tBITS Pilani'

In [35]: s1.lstrip() #Removes whitespace chars from the left - leading
Out[35]: 'BITS Pilani\n\t '

In [36]: s1.strip()
Out[36]: 'BITS Pilani'

In [ ]:
```

BITS Pilani

jupyter Untitled Last Checkpoint: 5 minutes ago (unsaved changes)

Logout

File Edit View Insert Cell Kernel Widgets Help Trusted Python 3

Run Code

```
In [34]: s1.rstrip() #Removes whitespace chars from right
Out[34]: '\n\tBITS Pilani'

In [35]: s1.lstrip() #Removes whitespace chars from the left - leading
Out[35]: 'BITS Pilani\n\t '

In [36]: s1.strip()
Out[36]: 'BITS Pilani'

In [37]: s2 = "xxxyyyyzzzCoronavirus"

In [ ]: s2
```

VISHAL GUPTA:

BITS Pilani

jupyter Untitled Last Checkpoint: 6 minutes ago (unsaved changes)

Logout

File Edit View Insert Cell Kernel Widgets Help Trusted Python 3

Run Code

```
In [35]: s1.lstrip() #Removes whitespace chars from the left - leading
Out[35]: 'BITS Pilani\n\t '

In [36]: s1.strip()
Out[36]: 'BITS Pilani'

In [37]: s2 = "xxxyyyyzzzCoronavirus"

In [38]: s2.lstrip('x') #Python is case sensitive
Out[38]: 'yyyyzzzCoronavirus'

In [ ]:
```

PATTABHIRAMARAO NARSIMHARAO TIRUNAGIRI

BITS Pilani

jupyter Untitled Last Checkpoint: 8 minutes ago (unsaved changes)

Logout

File Edit View Insert Cell Kernel Widgets Help Trusted Python 3

Run Code

```
In [40]: s2.lstrip('x') #Python is case sensitive
Out[40]: 'yyxxxyyzzzCoronavirus'

In [41]: s2.lstrip('yx')
Out[41]: 'zzzCoronavirus'

In [42]: s2.lstrip('yxz')
Out[42]: 'Coronavirus'

In [43]: line = "This COVID-19 outbreak was first identified in Wuhan Hubei China"

In [ ]:
```

jupyter Untitled Last Checkpoint: 9 minutes ago (unsaved changes)

Logout

File Edit View Insert Cell Kernel Widgets Help Trusted Python 3

Run Code

```
In [41]: s2.lstrip('yx')
Out[41]: 'zzzCoronavirus'

In [42]: s2.lstrip('yxz')
Out[42]: 'Coronavirus'

In [43]: line = "This COVID-19 outbreak was first identified in Wuhan Hubei China"

In [44]: splitLine = line.split()

In [ ]:
```

SHRIKANT HANUMANTRAO DESHMUKH

BITS Pilani

jupyter Untitled Last Checkpoint: 11 minutes ago (unsaved changes)

File Edit View Insert Cell Kernel Widgets Help Trusted Python 3

Run Code

```
In [47]: print(splitLine[1])
COVID-19

In [48]: print(splitLine[-3])
Wuhan

In [49]: csv = "India, is, under, complete, lockdown"

In [50]: csv.split(',')
Out[50]: ['India', ' is', ' under', ' complete', ' lockdown']

In [ ]:
```

BITS Pilani

jupyter Untitled Last Checkpoint: 12 minutes ago (unsaved changes)

File Edit View Insert Cell Kernel Widgets Help Trusted Python 3

Run Code

```
In [48]: print(splitLine[-3])
         Wuhan

In [49]: csv = "India, is, under, complete, lockdown"

In [50]: csv.split(',')
Out[50]: ['India', ' is', ' under', ' complete', ' lockdown']

In [51]: csv.find('India')
Out[51]: 0

In [ ]:
```

BITS Pilani

jupyter Untitled Last Checkpoint: 12 minutes ago (unsaved changes)

File Edit View Insert Cell Kernel Widgets Help Trusted Python 3

Run Code

```
In [48]: print(splitLine[-3])

         Wuhan

In [49]: csv = "India, is, under, complete, lockdown"

In [50]: csv.split(',')

Out[50]: ['India', ' is', ' under', ' complete', ' lockdown']

In [51]: csv.find('India')

Out[51]: 0

In [ ]:
```

MANOJ KUMAR PANDEY

BITS Pilani

jupyter Untitled Last Checkpoint: 12 minutes ago (unsaved changes)

Logout

File Edit View Insert Cell Kernel Widgets Help Trusted Python 3

Run Code

```
In [48]: print(splitLine[-3])
         Wuhan

In [49]: csv = "India, is, under, complete, lockdown"

In [50]: csv.split(',')
Out[50]: ['India', ' is', ' under', ' complete', ' lockdown']

In [51]: csv.find('India')
Out[51]: 0

In [ ]:
```

BITS Pilani

jupyter Untitled Last Checkpoint: 13 minutes ago (unsaved changes)

File Edit View Insert Cell Kernel Widgets Help

Trusted | Python 3

Run | Code

```
In [49]: csv = "India, is, under, complete, lockdown"

In [50]: csv.split(',')
Out[50]: ['India', ' is', ' under', ' complete', ' lockdown']

In [51]: csv.find('India')
Out[51]: 0

In [52]: csv.find("USA")
Out[52]: -1

In [ ]:
```

BITS Pilani

jupyter Untitled Last Checkpoint: 13 minutes ago (unsaved changes)

File Edit View Insert Cell Kernel Widgets Help Trusted Python 3

Run Code

Out[51]: 0

In [52]:
```
csv.find("USA")
```

Out[52]: -1

In [53]:
```
s3 = "Arunachal Pradesh"
print(s3)
```

```
Arunachal Pradesh
```

In [55]:
```
s3.replace("Arunachal", "Uttar")
```

Out[55]: 'Uttar Pradesh'

In [ ]:
```
""
```

GEETHA V
as we are not assigning the list to variable

BITS Pilani

jupyter Untitled Last Checkpoint: a few seconds ago (autosaved)

Logout

File Edit View Insert Cell Kernel Widgets Help

Trusted | Python 3

New Notebook
Open...
Make a Copy...
Save as...
Rename...
Save and Checkpoint
Revert to Checkpoint
Print Preview
Download as
Trusted Notebook
Close and Halt

Run Code

```
(s3)
```

```
chal Pradesh
```

```
place("Arunachal", "Uttar")
```

```
r Pradesh'
```

```
achal Pradesh'
```

```
= 'A'
```

```
---------------------------------------------------------------------------
rror                                      Traceback (most recent call last)
hon-input-57-82a356f98cf8> in <module>
1 s3[4] = 'A'

TypeError: 'str' object does not support item assignment
```

In [ ]:

RAHUL JAIN
Please go ahead sir

BITS Pilani

jupyter

(autosaved)

Logout

File Edit View Insert Cell Kernel Help

Kernel

Run

BITS Pilani

jupyter Untitled1 Last Checkpoint: 5 minutes ago (unsaved changes)

Logout

File Edit View Insert Cell Kernel Widgets Help Trusted Python 3

Run Code

Out[2]: 0

In [3]:
```
numList = [7, 2, 5, 4, 1, 6, 3]
print(numList)
len(numList)
```

```
[7, 2, 5, 4, 1, 6, 3]
```

Out[3]: 7

In [4]:
```
mixedList = [1, 1.4, 3, True, "BITS Pilani"]
print(mixedList)
print(len(mixedList))
```

```
[1, 1.4, 3, True, 'BITS Pilani']
5
```

In [ ]:

jupyter Untitled1 Last Checkpoint: 6 minutes ago (unsaved changes)

File Edit View Insert Cell Kernel Widgets Help

Trusted | Python 3

Run | Code

Out[3]: 7

In [4]:
```
mixedList = [1, 1.4, 3, True, "BITS Pilani"]
print(mixedList)
print(len(mixedList))
```

```
[1, 1.4, 3, True, 'BITS Pilani']
5
```

In [ ]:
```
# Access individual elements
#            0   1   2   3          4
mixedList = [1, 1.4, 3, True, "BITS Pilani"]
#           -5  -4   -3  -2        -1

# Print 4th element

print
```

HUMPY MUKHERJEE
customer profile: name, address, phone number
Important

BITS Pilani

jupyter Untitled1 Last Checkpoint: 6 minutes ago (unsaved changes)

File Edit View Insert Cell Kernel Widgets Help Trusted Python 3

```
print(mixedList)
print(len(mixedList))
```

```
[1, 1.4, 3, True, 'BITS Pilani']
5
```

In [5]:

```
# Access individual elements
#            0   1   2   3         4
mixedList = [1, 1.4, 3, True, "BITS Pilani"]
#           -5  -4  -3  -2        -1

# Print 4th element - element at index 3

print(mixedList[-3])
```

```
3
```

In [ ]:

jupyter Untitled1 Last Checkpoint: 7 minutes ago (unsaved changes)

Logout

File Edit View Insert Cell Kernel Widgets Help Trusted Python 3

Run Code

```
print(mixedList)
print(len(mixedList))
```

```
[1, 1.4, 3, True, 'BITS Pilani']
5
```

In [5]:
```
# Access individual elements
#            0   1   2   3          4
mixedList = [1, 1.4, 3, True, "BITS Pilani"]
#           -5  -4  -3  -2        -1

# Print 4th element - element at index 3

print(mixedList[-3])
```

```
3
```

In [ ]:

BITS Pilani

jupyter Untitled1 Last Checkpoint: 7 minutes ago (unsaved changes)

File Edit View Insert Trusted Python 3

Code

```
br  t(mixedList)
pr  len(mixedLi t).
```

```
5
```

In [6]:
```
# Access individual elements
#            0   1   2   3         4
mixedList = [1, 1.4, 3, True, "BITS Pilani"]
#           -5  -4   -3  -2       -1

# Print 4th element - element at index 3

print(mixedList[3])
```

```
True
```

In [ ]:
```
print(mixedList)
```

jupyter Untitled1 Last Checkpoint: 8 minutes ago (unsaved changes)

File Edit View Insert Cell Kernel Widgets Help

Trusted | Python 3

```
# Print 4th element - element at index 3

print(mixedList[3])
```

```
True
```

In [7]:
```
print(mixedList[-2])
```

```
True
```

Mutability of Lists

In [ ]:

jupyter Untitled1 Last Checkpoint: 8 minutes ago (unsaved changes)

File Edit View Insert Cell Kernel Widgets Help Trusted Python 3

```
# Print 4th element - element at index 3

print(mixedList[3])
```

```
True
```

In [7]:
```
print(mixedList[-2])
```

```
True
```

Mutability of Lists

In [ ]:
```
a = [1,2,3]
print(a)
print(id)
```

ASHISH KUMAR SHRIVASTAVA

BITS Pilani

jupyter Untitled1 Last Checkpoint: 10 minutes ago (unsaved changes)

File Edit View Insert Cell Kernel Widgets Help

Trusted | Python 3

Run | Code

```
[1, 2, 3]
1819573256968
```

In [9]:
```
a[1] = "BITS Pilani"
print(a)
print(id(a))
```

```
[1, 'BITS Pilani', 3]
1819573256968
```

In [10]:
```
# Assign list a to another list
b = a # Assign list a to b
print(b
```

```
[1, 'BITS Pilani', 3]
```

In [ ]:

BITS Pilani

jupyter Untitled1 Last Checkpoint: 10 minutes ago (autosaved)

File Edit View Insert Cell Kernel Widgets Help Notebook saved Trusted Python 3

Run Code

```
[1, 2, 3]
1819573256968
```

In [9]:
```
a[1] = "BITS Pilani"
print(a)
print(id(a))
```

```
[1, 'BITS Pilani', 3]
1819573256968
```

In [10]:
```
# Assign list a to another list
b = a # Assign list a to b
print(b)
```

```
[1, 'BITS Pilani', 3]
```

In [ ]:

JEENA KASTHURI R
Sir why is this difference in python? is there a way to return lists immutable when using functions?
Imparts

BITS Pilani

jupyter Untitled1 Last Checkpoint: 10 minutes ago (unsaved changes)

Logout

File Edit View Insert Cell Kernel Widgets Help Trusted Python 3

Run Code

In [9]:
```
a[1] = 'BITS Pilani'
print(a)
print(id(a))
```

```
[1, 'BITS Pilani', 3]
1819573256968
```

In [10]:
```
# Assign list a to another list
b = a # Assign list a to b
print(b)
```

```
[1, 'BITS Pilani', 3]
```

In [11]:
```
print(id(b))
```

```
1819573256968
```

In [ ]:

NITIN AGGARWAL

BITS Pilani

jupyter Untitled1 Last Checkpoint: 11 minutes ago (unsaved changes)

File Edit View Insert Cell Kernel Widgets Help Trusted Python 3

```
[1, 'BITS Pilani', 3]
```

In [11]:
```
print(id(b))
```

```
1819573256968
```

In [12]:
```
b[2] = "Coronavirus"
print(b)
```

```
[1, 'BITS Pilani', 'Coronavirus']
```

In [13]:
```
print(a)
```

```
[1, 'BITS Pilani', 'Coronavirus']
```

In [ ]:

BITS Pilani

jupyter Untitled1 Last Checkpoint: 12 minutes ago (unsaved changes)

Logout

File Edit View Insert Cell Kernel Widgets Help Trusted Python 3

Run Code

```
1819573256968
```

In [10]:
```
# Assign list a to another list
b = a # Assign list a to b
print(b)
```

```
[1, 'BITS Pilani', 3]
```

In [11]:
```
print(id(b))
```

```
1819573256968
```

In [12]:
```
b[2] = "Coronavirus"
print(b)
```

```
[1, 'BITS Pilani', 'Coronavirus']
```

In [13]:
```
print(a)
```

```
[1, 'BITS Pilani', 'Coronavirus']
```

In [ ]:

SATWIK DILIP KAILASH

BITS Pilani

jupyter Untitled1 Last Checkpoint: 12 minutes ago (unsaved changes)

Logout

File Edit View Insert Cell Kernel Widgets Help Trusted Python 3

Run Code

In [11]:
```
print(id(b))
```

```
1819573256968
```

In [12]:
```
b[2] = "Coronavirus"
print(b)
```

```
[1, 'BITS Pilani', 'Coronavirus']
```

In [13]:
```
print(a)
```

```
[1, 'BITS Pilani', 'Coronavirus']
```

In [ ]:

SHIVESH SINGHAL:
In this case if the size of a is 1 gb, the total memory consumption going to be 2 gb or 1 gb? Kindly explain the reason

BITS Pilani

jupyter Untitled1 Last Checkpoint: 12 minutes ago (autosaved)

Logout

File Edit View Insert Cell Kernel Widgets Help Trusted Python 3

Run Code

In [11]:
```
print(id(b))
```

```
1819573256968
```

In [12]:
```
b[2] = "Coronavirus"
print(b)
```

```
[1, 'BITS Pilani', 'Coronavirus']
```

In [13]:
```
print(a)
```

```
[1, 'BITS Pilani', 'Coronavirus']
```

In [ ]:

JAISWAL DILIP KAILASH

BITS Pilani

jupyter Untitled1 Last Checkpoint: 13 minutes ago (unsaved changes)

Logout

File Edit View Insert Cell Kernel Widgets Help Trusted Python 3

Run Code

In [12]:
```
b[2] = "Coronavirus"
print(b)
```

```
[1, 'BITS Pilani', 'Coronavirus']
```

In [13]:
```
print(a)
```

```
[1, 'BITS Pilani', 'Coronavirus']
```

In [14]:
```
c = list(a)
print(c)
print(id(c))
```

```
[1, 'BITS Pilani', 'Coronavirus']
1819573522312
```

In [ ]:

BITS Pilani

jupyter Untitled1 Last Checkpoint: 13 minutes ago (unsaved changes)

Logout

File Edit View Insert Cell Kernel Widgets Help Trusted Python 3

Run Code

In [11]:
```
print(id(b))
```

```
1819573256968
```

In [12]:
```
b[2] = "Coronavirus"
print(b)
```

```
[1, 'BITS Pilani', 'Coronavirus']
```

In [13]:
```
print(a)
```

```
[1, 'BITS Pilani', 'Coronavirus']
```

In [14]:
```
# Unless you are su
c = list(a)
print(c)
print(id(c))
```

```
[1, 'BITS Pilani', 'Coronavirus']
1819573522312
```

In [ ]:

ARPIT KUMAR ROHABH KUMAR JAIN

BITS Pilani

jupyter Untitled1 Last Checkpoint: 13 minutes ago (unsaved changes)

File Edit View Insert Cell Kernel Widgets Help

Trusted | Python 3

Run | Code

In [11]:
```
print(id(b))
```

```
1819573256968
```

In [12]:
```
b[2] = "Coronavirus"
print(b)
```

```
[1, 'BITS Pilani', 'Coronavirus']
```

In [13]:
```
print(a)
```

```
[1, 'BITS Pilani', 'Coronavirus']
```

In [14]:
```
# Unless you are sure what you are doing, do not use assignment

c = list(a)
print(c)
print(id(c))
```

```
[1, 'BITS Pilani', 'Coronavirus']
1819573522312
```

VIKASH KUMAR
really great concept

BITS Pilani

jupyter Untitled1 Last Checkpoint: 14 minutes ago (unsaved changes)

File Edit View Insert Cell Kernel Widgets Help Trusted Python 3

In [11]:
```
print(id(b))
```

```
1819573256968
```

In [12]:
```
b[2] = "Coronavirus"
print(b)
```

```
[1, 'BITS Pilani', 'Coronavirus']
```

In [13]:
```
print(a)
```

```
[1, 'BITS Pilani', 'Coronavirus']
```

In [14]:
```
# Unless you are sure what you are doing, do not use assignment
# operator with mutable objects
# Alw
c = list(a)
print(c)
print(id(c))
```

```
[1, 'BITS Pilani', 'Coronavirus']
1819573522312
```

BITS Pilani

jupyter Untitled1 Last Checkpoint: a few seconds ago (unsaved changes)

Logout

File Edit View Insert Cell Kernel Widgets Help Trusted Python 3

Run Code

In [14]:
```
# Unless you are sure what you are doing, do not use assignment
# operator with mutable objects
# Always create a new object because if you modify one object
# it will not affect the other object

# Shallow copy vs. Deep copy

c = list(a)
print(c)
print(id(c))
```

```
[1, 'BITS Pilani', 'Coronavirus']
1819573522312
```

In [ ]:
```
# Comparing lists
a = [1,2,3]
b = [1,
```

YOGESH KUMAR SHARMA

BITS Pilani

jupyter Untitled1 Last Checkpoint: a minute ago (unsaved changes)

File Edit View Insert Cell Kernel Widgets Help Trusted Python 3

Run Code

```
# Shallow copy vs. Deep copy

c = list(a)
print(c)
print(id(c))
```

```
[1, 'BITS Pilani', 'Coronavirus']
1819573522312
```

In [15]:
```
# Comparing lists
a = [1,2,3]
b = [1,2,3]

print(a == b) # Compares elements of the list. Order matters
```

```
True
```

In [ ]:
```
c = [2,1,3]
print(
```

MOHD SAIFULLAH ANSARI

BITS Pilani

jupyter Untitled1 Last Checkpoint: 2 minutes ago (unsaved changes)

File Edit View Insert Cell Kernel Widgets Help Trusted Python 3

```
[1, 'BITS Pilani', 'Coronavirus']
1819573522312
```

In [15]:
```
# Comparing lists
a = [1,2,3]
b = [1,2,3]

print(a == b) # True. Compares elements of the list. Order matters
```

```
True
```

In [16]:
```
c = [2,1,3]
print(a == c) # False. Order matters
```

```
False
```

In [ ]:
```
print(id(a) == id(b)) #
```

SHRINDHI K S

BITS Pilani

jupyter Untitled1 Last Checkpoint: 2 minutes ago (unsaved changes)

File Edit View Insert Cell Kernel Widgets Help Trusted Python 3

Run Code

In [15]:
```
# Comparing Lists
a = [1,2,3]
b = [1,2,3]

print(a == b) # True. Compares elements of the List. Order matters
```

```
True
```

In [16]:
```
c = [2,1,3]
print(a == c) # False. Order matters
```

```
False
```

In [ ]:
```
print(id(a) == id(b)) # False
```

GEETHA V
different address
Imparties

BITS Pilani

jupyter Untitled1 Last Checkpoint: 3 minutes ago (unsaved changes)

Logout

File Edit View Insert Cell Kernel Widgets Help Trusted Python 3

Run Code

```
True
```

In [16]:
```
c = [2,1,3]
print(a == c) # False. Order matters
```

```
False
```

In [17]:
```
print(id(a) == id(b)) # False
```

```
False
```

Adding Lists

In [ ]:
```
a = [1,2,3]
b = ['a','b','c']
```

BITS Pilani

jupyter Untitled1 Last Checkpoint: 3 minutes ago (unsaved changes)

Logout

File Edit View Insert Cell Kernel Widgets Help Trusted Python 3

Run Code

```
False
```

In [17]:
```
print(id(a) == id(b)) # False
```

```
False
```

Adding Lists

In [18]:
```
a = [1,2,3]
b = ['a','b','c']
print(a)
print(b)
```

```
[1, 2, 3]
['a', 'b', 'c']
```

In [ ]:

DHAMAVANTHI M

BITS Pilani

jupyter Untitled1 Last Checkpoint: a minute ago (autosaved)

File Edit View Insert Cell Kernel Widgets Help

Trusted | Python 3

Run Code

```
[1, 2, 3]
['a', 'b', 'c']
```

In [19]:
```
c = a + b
print(c)
```

```
[1, 2, 3, 'a', 'b', 'c']
```

In [21]:
```
# Updating elements of a with b
a += b
print(a)
```

```
[1, 2, 3, 'a', 'b', 'c', 'a', 'b', 'c']
```

In [ ]:

BITS Pilani

jupyter Untitled1 Last Checkpoint: 2 minutes ago (unsaved changes)

Logout

File Edit View Insert Cell Kernel Widgets Help Trusted Python 3

Run Code

In [19]:
```
c = a + b
print(c)
```

```
[1, 2, 3, 'a', 'b', 'c']
```

In [21]:
```
# Updating elements of a with b
a += b
print(a)
```

```
[1, 2, 3, 'a', 'b', 'c', 'a', 'b', 'c']
```

In [ ]:
```
a = [1,2,3]
b = ['Hyderabad', 'Mumbai', 'Delhi', 'Bengaluru']

a.extend(b)
print(a)
print
```

AKSHIT GUPTA

BITS Pilani

jupyter Untitled1 Last Checkpoint: 3 minutes ago (unsaved changes)

Logout

File Edit View Insert Cell Kernel Widgets Help Trusted Python 3

Run Code

In [22]:
```
a = [1,2,3]
b = ['Hyderabad', 'Mumbai', 'Delhi', 'Bengaluru']

a.extend(b)
print(a)
print(b)
```

```
[1, 2, 3, 'Hyderabad', 'Mumbai', 'Delhi', 'Bengaluru']
['Hyderabad', 'Mumbai', 'Delhi', 'Bengaluru']
```

List Operations

In [ ]:

BITS Pilani

jupyter Untitled1 Last Checkpoint: 3 minutes ago (unsaved changes)

Logout

File Edit View Insert Cell Kernel Widgets Help Trusted Python 3

Run Code

```
print(employees)
```

```
[]
```

In [24]:
```
# Adding elements to the list
employees.append("James") # 0
employees.append("Emily") # 1
print(employees)
```

```
['James', 'Emily']
```

In [25]:
```
# Inserting elements
employees.insert(1, "Tom")
print(employees)
```

```
['James', 'Tom', 'Emily']
```

In [ ]:

jupyter Untitled1 Last Checkpoint: 3 minutes ago (unsaved changes)

Logout

File Edit View Insert Cell Kernel Widgets Help Trusted Python 3

Run Code

In [24]:
```
# Adding elements to the list
employees.append("James") # 0
employees.append("Emily") # 1
print(employees)
```

```
['James', 'Emily']
```

In [25]:
```
# Inserting elements
employees.insert(1, "Tom")
print(employees)
```

```
['James', 'Tom', 'Emily']
```

In [ ]:

jupyter Untitled1 Last Checkpoint: 5 minutes ago (unsaved changes)

Logout

File Edit View Insert Cell Kernel Widgets Help Trusted Python 3

Run Code

In [25]:
```
# Inserting elements
employees.insert(1, "Tom")
print(employees)
```

```
['James', 'Tom', 'Emily']
```

In [26]:
```
#Number of employees
print(len(employees))
```

```
3
```

In [27]:
```
# Insert an element at the end
employees.insert(len(employees), "Carlos")
print(employees)
```

```
['James', 'Tom', 'Emily', 'Carlos']
```

In [ ]:
```
# Checking if any element exists in the list
if "Chris" in employees:
    
```

NITIN AGARWAL

BITS Pilani

jupyter Untitled1 Last Checkpoint: 6 minutes ago (unsaved changes)

Logout

File Edit View Insert Cell Kernel Widgets Help Trusted Python 3

Run Code

```
employees.insert(len(employees), 'Carlos')
print(employees)
```

```
['James', 'Tom', 'Emily', 'Carlos']
```

In [28]:
```
# Checking if any element exists in the list
if "Chris" in employees:
    print("Chris is an employee")
else:
    print("Chris is not employee")
```

```
Chris is not employee
```

In [29]:
```
print("Chris" in employees)
```

```
False
```

In [ ]:

BITS Pilani

jupyter Untitled1 Last Checkpoint: 6 minutes ago (unsaved changes)

Logout

File Edit View Insert Cell Kernel Widgets Help Trusted Python 3

Run Code

In [28]:
```
# Checking if any element exists in the list
if "Chris" in employees:
    print("Chris is an employee")
else:
    print("Chris is not employee")
```

```
Chris is not employee
```

In [29]:
```
print("Chris" in employees)
```

```
False
```

In [30]:
```
print("Chris" not in employees)
```

```
True
```

In [ ]:

BITS Pilani

jupyter Untitled1 Last Checkpoint: 13 minutes ago (autosaved)

File Edit View Insert Cell Kernel Widgets Help Trusted Python 3

```
employees.insert(len(employees), "Carlos")
print(employees)
```

```
['James', 'Tom', 'Emily', 'Carlos']
```

In [28]:
```
# Checking if any element exists in the list
if "Chris" in employees:
    print("Chris is an employee")
else:
    print("Chris is not employee")
```

```
Chris is not employee
```

In [29]:
```
print("Chris" in employees)
```

```
False
```

In [30]:
```
print("Chris" not in employees)
```

```
True
```

In [ ]:

BITS Pilani

jupyter Untitled1 Last Checkpoint: 16 minutes ago (unsaved changes)

Logout

File Edit View Insert Cell Kernel Widgets Help Trusted Python 3

Run Code

```
pTom = employees.index("Tom") #searches from the beginnign of the list
print(pTom)
```

```
1
```

In [34]:
```
employees.append("Tom")
print(employees)
```

```
['James', 'Tom', 'Emily', 'Carlos', 'Tom']
```

In [35]:
```
pTom2 = employees.index("Tom", pTom+1)
print("Second Tom is located at ", pTom2)
```

```
Second Tom is located at  4
```

In [ ]:

BITS Pilani

jupyter Untitled1 Last Checkpoint: 17 minutes ago (unsaved changes)

Logout

File Edit View Insert Cell Kernel Widgets Help Trusted Python 3

Run Code

In [34]:
```
employees.append("Tom")
print(employees)
```

```
['James', 'Tom', 'Emily', 'Carlos', 'Tom']
```

In [35]:
```
pTom2 = employees.index("Tom", pTom+1)
print("Second Tom is located at ", pTom2)
```

```
Second Tom is located at  4
```

In [36]:
```
# Add an element at location one before the last one
employees.insert(len(employees)-1, "Bill")
print(employees)
```

```
['James', 'Tom', 'Emily', 'Carlos', 'Bill', 'Tom']
```

In [ ]:

CHANDRESH PRATAP SINGH

BITS Pilani

jupyter Untitled1 Last Checkpoint: 18 minutes ago (unsaved changes)

Logout

File Edit View Insert Cell Kernel Widgets Help Trusted Python 3

Run Code

```
In [35]: pTom2 = employees.index("Tom", pTom+1)
         print("Second Tom is located at ", pTom2)
```

```
Second Tom is located at  4
```

```
In [36]: # Add an element at location one before the last one
         employees.insert(len(employees)-1, "Bill")
         print(employees)
```

```
['James', 'Tom', 'Emily', 'Carlos', 'Bill', 'Tom']
```

```
In [37]: # Adding elements from the list
         employees.remove("Tom")
         print(employees)
```

```
['James', 'Emily', 'Carlos', 'Bill', 'Tom']
```

```
In [ ]:
```

DIVYA K
Please refresh everytime you have
issues
Imparts

BITS Pilani

jupyter Untitled1 Last Checkpoint: 21 minutes ago (unsaved changes)

Logout

File Edit View Insert Cell Kernel Widgets Help Trusted Python 3

Run Code

```
['James', 'Emily', 'Carlos', 'Bill', 'Tom']
```

In [38]:

```
# Removing elements using pop()
# removes elements at a particular index
x = employees.pop(len(employees)-1)
print("Employee popped is ", x)

print(employees)
```

```
Employee popped is  Tom
['James', 'Emily', 'Carlos', 'Bill']
```

In [39]:

```
employees.remove("Jeffrey")
```

```
---------------------------------------------------------------------------
ValueError                                Traceback (most recent call last)
<ipython-input-39-1a1da489a5d7> in <module>
----> 1 employees.remove("Jeffrey")

ValueError: list.remove(x): x not in list
```

In [ ]:

BITS Pilani

jupyter Untitled1 Last Checkpoint: 22 minutes ago (unsaved changes)

Logout

File Edit View Insert Cell Kernel Widgets Help Trusted Python 3

Run Code

```
x = employees.pop(len(employees)-1)
print("Employee popped is ", x)

print(employees)
```

```
Employee popped is  Tom
['James', 'Emily', 'Carlos', 'Bill']
```

In [40]:
```
if "Jeffrey" in employees:
    employees.remove("Jeffrey")
```

In [41]:
```
print(employees)
```

```
['James', 'Emily', 'Carlos', 'Bill']
```

In [ ]:

BITS Pilani

jupyter Untitled1 Last Checkpoint: 25 minutes ago (unsaved changes)

Logout

File Edit View Insert Cell Kernel Widgets Help Trusted Python 3

Run Code

In [42]:
```
employees.insert(-4, "Jacob")
print(employees)
```

```
['Jacob', 'James', 'Emily', 'Carlos', 'Bill']
```

In [43]:
```
# removing an element using del statement
del employees[2]
print(employees)
```

```
['Jacob', 'James', 'Carlos', 'Bill']
```

List Slicing

In [ ]:
```
fib = [0, 1, 1, 2, 3, 5, 8, 13]
```

BITS Pilani

jupyter Untitled1 Last Checkpoint: 25 minutes ago (unsaved changes)

Logout

File Edit View Insert Cell Kernel Widgets Help Trusted Python 3

Run Code

In [43]:
```
# removing an element using del statement
del employees[2]
print(employees)
```

```
['Jacob', 'James', 'Carlos', 'Bill']
```

List Slicing

In [44]:
```
#      0  1  2  3  4  5  6  7
fib = [0, 1, 1, 2, 3, 5, 8, 13]
#     -1 -2 -3 -4 -5 -6 -7  -8
```

In [ ]:

PRASHANT SHUKLA
Why jacob inserted at -5 when we wanted to add it at -4 ?
Impartus

BITS Pilani

jupyter Untitled1 Last Checkpoint: 26 minutes ago (unsaved changes)

Logout

File Edit View Insert Cell Kernel Widgets Help Trusted Python 3

Run Code

List Slicing

In [44]:
```
#      0  1  2  3  4  5  6  7
fib = [0, 1, 1, 2, 3, 5, 8, 13]
#     -1 -2 -3 -4 -5 -6 -7  -8
```

In [45]:
```
l1 = fib[2:6]
print(l1)
```

```
[1, 2, 3, 5]
```

In [46]:
```
l2 = fib[5:]
print(l2)
```

```
[5, 8, 13]
```

In [ ]:

SURAKARAM ADARSH GOUD
answers to difference between rem, del and pop
Imparts

BITS Pilani

jupyter Untitled1 Last Checkpoint: 27 minutes ago (unsaved changes)

File Edit View Insert Cell Kernel Widgets Help Trusted Python 3

Run Code

In [45]:
```
l1 = fib[2:6]
print(l1)
```

```
[1, 2, 3, 5]
```

In [46]:
```
l2 = fib[5:]
print(l2)
```

```
[5, 8, 13]
```

In [47]:
```
l3 = fib[-6:-2]
print(l3)
```

```
[1, 2, 3, 5]
```

In [ ]:

VIVEK CHOUDHARY

BITS Pilani

jupyter Untitled1 Last Checkpoint: 27 minutes ago (unsaved changes)

File Edit View Insert Cell Kernel Widgets Help Trusted Python 3

```
print(employees)
```

```
['Jacob', 'James', 'Emily', 'Carlos', 'Bill']
```

In [43]:
```
# removing an element using del statement
del employees[2]
print(employees)
```

```
['Jacob', 'James', 'Carlos', 'Bill']
```

List Slicing

In [44]:
```
#      0  1  2  3  4  5  6  7
fib = [0, 1, 1, 2, 3, 5, 8, 13]
#     -1 -2 -3 -4 -5 -6 -7  -8
```

In [45]:
```
l1 = fib[2:6]
print(l1)
```

```
[1, 2, 3, 5]
```

In [46]:
```
l2 = fib[5:]
print(l2)
```

jupyter Untitled1 Last Checkpoint: 28 minutes ago (unsaved changes)

Logout

File Edit View Insert Cell Kernel Widgets Help Trusted Python 3

Run Code

```
[5, 8, 13]
```

In [47]:
```
l3 = fib[-6:-2]
print(l3)
```

```
[1, 2, 3, 5]
```

In [48]:
```
l4 = fib[5:20]
print(l4)
```

```
[5, 8, 13]
```

In [49]:
```
print(fib[20])
```

```
---------------------------------------------------------------------------
IndexError                                Traceback (most recent call last)
<ipython-input-49-6ba680ce8812> in <module>
----> 1 print(fib[20])

IndexError: list index out of range
```

In [ ]:

BITS Pilani

jupyter Untitled1 Last Checkpoint: 28 minutes ago (unsaved changes)

File Edit View Insert Cell Kernel Widgets Help

Trusted | Python 3

Run | Code

In [48]:
```
14 = fib[5:20]
print(14)
```

```
[5, 8, 13]
```

In [49]:
```
print(fib[20])
```

```
---------------------------------------------------------------------------
IndexError                                Traceback (most recent call last)
<ipython-input-49-0ba5d0ce0812> in
----> 1 print(fib[20])

IndexError: list index out of range
```

In [ ]:

jupyter Untitled1 Last Checkpoint: 29 minutes ago (autosaved)

Logout

File Edit View Insert Cell Kernel Widgets Help Trusted Python 3

Run Code

List Slicing

In [44]:
```
#      0  1  2  3  4  5  6  7
fib = [0, 1, 1, 2, 3, 5, 8, 13]
#     -1 -2 -3 -4 -5 -6 -7  -8
```

In [45]:
```
l1 = fib[2:6]
print(l1)
```

```
[1, 2, 3, 5]
```

In [46]:
```
l2 = fib[5:]
print(l2)
```

```
[5, 8, 13]
```

In [47]:
```
l3 = fib[-6:-2]
print(l3)
```

```
[1, 2, 3, 5]
```

BITS Pilani

jupyter Untitled1 Last Checkpoint: 29 minutes ago (autosaved)

Logout

File Edit View Insert Cell Kernel Widgets Help Trusted Python 3

Run Code

In [48]:
```
l4 = fib[5:20]
print(l4)
```

```
[5, 8, 13]
```

In [49]:
```
print(fib[20])
```

```
---------------------------------------------------------------------------
IndexError                                Traceback (most recent call last)
<ipython-input-49-6ba680ce8812> in <module>
----> 1 print(fib[20])

IndexError: list index out of range
```

In [ ]:
```
### List Operations 2
```

SOUMITRA CHATTERJEE

BITS Pilani

jupyter Untitled1 Last Checkpoint: 29 minutes ago (unsaved changes)

Logout

File Edit View Insert Cell Kernel Widgets Help Trusted Python 3

Run Code

In [49]:
```
print(fib[20])
```

```
---------------------------------------------------------------------------
IndexError                                Traceback (most recent call last)
<ipython-input-49-6ba680ce8812> in <module>
----> 1 print(fib[20])

IndexError: list index out of range
```

List Operations 2

In [ ]:

SOUMITRA CHATTERJEE
Annoying
Impartial

BITS Pilani

jupyter Untitled1 Last Checkpoint: 29 minutes ago (unsaved changes)

Logout

File Edit View Insert Cell Kernel Widgets Help Trusted Python 3

Run Code

```
---------------------------------------------------------------------------
IndexError                                Traceback (most recent call last)
<ipython-input-49-6ba680ce8812> in <module>
----> 1 print(fib[20])

IndexError: list index out of range
```

List Operations 2

In [50]:
```
a = [7, 9, 3, 2]
print(a)
```

```
[7, 9, 3, 2]
```

In [ ]:

jupyter Untitled1 Last Checkpoint: 30 minutes ago (unsaved changes)

Logout

File Edit View Insert Cell Kernel Widgets Help Trusted Python 3

Run Code

```
IndexError: list index out of range
```

List Operations 2

In [50]:
```
a = [7, 9, 3, 2]
print(a)
```

```
[7, 9, 3, 2]
```

In [51]:
```
#Basic math operations
print("Sum of the elements: ", sum(a))
```

```
Sum of the elements:  21
```

In [ ]:

BITS Pilani

jupyter Untitled1 Last Checkpoint: 30 minutes ago (unsaved changes)

Logout

File Edit View Insert Cell Kernel Widgets Help Trusted Python 3

Run Code

```
IndexError: list index out of range
```

List Operations 2

In [50]:
```
a = [7, 9, 3, 2]
print(a)
```

```
[7, 9, 3, 2]
```

In [51]:
```
#Basic math operations
print("Sum of the elements: ", sum(a))
print()
```

```
Sum of the elements:  21
```

In [ ]:

TARIQUE NEYAZ KHAN
we got notification that class timing is 9:30 to 12:30
Important

BITS Pilani

jupyter Untitled1 Last Checkpoint: 30 minutes ago (unsaved changes)

Logout

File Edit View Insert Cell Kernel Widgets Help Trusted Python 3

Run Code

```
IndexError: list index out of range
```

List Operations 2

In [50]:
```
a = [7, 9, 3, 2]
print(a)
```

```
[7, 9, 3, 2]
```

In [52]:
```
#Basic math operations
print("Sum of the elements: ", sum(a))
print("Maximum value: ", max(a))
print("Minimum value: ", min(a))
```

```
Sum of the elements:  21
Maximum value:  9
Minimum value:  2
```

In [ ]:

BITS Pilani

jupyter Untitled1 Last Checkpoint: 31 minutes ago (unsaved changes)

Logout

File Edit View Insert Cell Kernel Widgets Help Trusted Python 3

Run Code

```
[7, 9, 3, 2]
```

In [52]:
```
#Basic math operations
print("Sum of the elements: ", sum(a))
print("Maximum value: ", max(a))
print("Minimum value: ", min(a))
```

```
Sum of the elements:  21
Maximum value:  9
Minimum value:  2
```

In [53]:
```
b = list(a)
print(b)
```

```
[7, 9, 3, 2]
```

In [ ]:

POTHULA MARUTHI CHOWDARY
Sir just want to correct one thing, otherwise students may get confused... Negative index should start from back side but you have given forward

BITS Pilani

jupyter Untitled1 Last Checkpoint: 31 minutes ago (unsaved changes)

Logout

File Edit View Insert Cell Kernel Widgets Help Trusted Python 3

Run Code

In [52]:
```
#Basic math operations
print("Sum of the elements: ", sum(a))
print("Maximum value: ", max(a))
print("Minimum value: ", min(a))
```

```
Sum of the elements:  21
Maximum value:  9
Minimum value:  2
```

In [53]:
```
b = list(a)
print(b)
```

```
[7, 9, 3, 2]
```

In [ ]:

BITS Pilani

jupyter Untitled1 Last Checkpoint: 31 minutes ago (unsaved changes)

Logout

File Edit View Insert Cell Kernel Widgets Help Trusted Python 3

Run Code

```
print("Minimum value: ", min(a))
```

```
Sum of the elements:  21
Maximum value:  9
Minimum value:  2
```

In [53]:
```
b = list(a)
print(b)
```

```
[7, 9, 3, 2]
```

In [*]:
```
#sorting elements of a list
b.sort()
```

In [ ]:

VIVEK CHOUDHURY

BITS Pilani

jupyter Untitled1 Last Checkpoint: 33 minutes ago (unsaved changes)

Logout

File Edit View Insert Cell Kernel Widgets Help Trusted Python 3

Run Code

In [56]:
```
c = list(a)
print(c)
```

```
[7, 9, 3, 2]
```

In [57]:
```
c.sort(reverse=True)
print(c)
```

```
[9, 7, 3, 2]
```

In [58]:
```
c.reverse()
print(c)
```

```
[2, 3, 7, 9]
```

In [ ]:

BITS Pilani

jupyter Untitled1 Last Checkpoint: 34 minutes ago (unsaved changes)

Logout

File Edit View Insert Cell Kernel Widgets Help Trusted Python 3

Run Code

In [57]:
```
c.sort(reverse=True)
print(c)
```

```
[9, 7, 3, 2]
```

In [58]:
```
# reverse() funcion reverses the orignal order
# the list must be in a particular order
c.reverse()
print(c)
```

```
[2, 3, 7, 9]
```

In [59]:
```
print(a)
```

```
[7, 9, 3, 2]
```

In [ ]:

jupyter Untitled1 Last Checkpoint: 34 minutes ago (unsaved changes)

Logout

File Edit View Insert Cell Kernel Widgets Help Trusted Python 3

Run Code

In [58]:
```
# reverse() funcion reverses the orignal order
# the list must be in a particular order
c.reverse()
print(c)
```

```
[2, 3, 7, 9]
```

In [59]:
```
print(a)
```

```
[7, 9, 3, 2]
```

In [60]:
```
b = list(a)
print(b)
```

```
[7, 9, 3, 2]
```

In [ ]:
```
c = a[:]
```

ARUNAVA ROY CHOUDHURY

BITS Pilani

NUNNA RAVI KIRAN

sir for next class onl can you please type these examples in advance and run us through them in the class rather than typing each factor

BITS Pilani

jupyter Untitled2 Last Checkpoint: a few seconds ago (unsaved changes)

Logout

File Edit View Insert Cell Kernel Widgets Help

Trusted | Python 3

Run Code

```
In [ ]:
```

BITS Pilani

jupyter Untitled2 Last Checkpoint: 2 minutes ago (unsaved changes)

Logout

File Edit View Insert Cell Kernel Widgets Help Trusted Python 3

Run Code

Operators, Expressions, and Decision Structures

```
In [ ]:
```

PRAMODKUMAR MODI

BITS Pilani

jupyter Untitled2 Last Checkpoint: 3 minutes ago (unsaved changes)

Logout

File Edit View Insert Cell Kernel Widgets Help Trusted Python 3

Run Code

Operators, Expressions, and Decision Structures

In [1]:
```
# Relational operators
# ==, !=, <, >, <=, >=4
```

In [ ]:
```
num1 = 5
num2 = 8

print(num1 == num2)
```

CHHADAWELKAR LALKAR EKNATH
Lets all leave it to the Doctor how to teach us :)

BITS Pilani

jupyter Untitled2 Last Checkpoint: 4 minutes ago (unsaved changes)

Logout

File Edit View Insert Cell Kernel Widgets Help Trusted Python 3

Run Code

Operators, Expressions, and Decision Structures

In [1]:
```
# Relational operators
# ==, !=, <, >, <=, >=4
# These operators result in a Boolean outcome
# When
```

In [ ]:
```
num1 = 5
num2 = 8

print(num1 == num2)
```

BADAL KUMAR

BITS Pilani

jupyter Untitled2 Last Checkpoint: 6 minutes ago (unsaved changes)

Logout

File Edit View Insert Cell Kernel Widgets Help Trusted Python 3

Run Code

```
print(num1 == num2)
```

```
False
```

In [3]:
```
print(num1 > num2)
```

```
False
```

In [4]:
```
# Logical Operators
# and , or
```

In [5]:
```
# and operator combines two boolean expressions
# compound expression

(num1 > 0) and (num1 > num2)
```

Out[5]:
```
False
```

In [ ]:

ELANGOVAN P
Find in canvas
Imparts

BITS Pilani

jupyter Untitled2 Last Checkpoint: 8 minutes ago (unsaved changes)

Logout

File Edit View Insert Cell Kernel Widgets Help Trusted Python 3

Run Code

```
# When you use relational operations, they are called boolean expressions
```

In [2]:
```
num1 = 5
num2 = 8

print(num1 == num2)
```

```
False
```

In [3]:
```
print(num1 > num2)
```

```
False
```

In [4]:
```
# logical Operators
# and , or, !
```

In [5]:
```
# and operator combines two boolean expressions
# compound expression

(num1 > 0) and (num1 > num2)
```

Out[5]:
```
False
```

In [7]:
```
(num1 > 0) or (num1 < num2)
```

BITS Pilani

jupyter Untitled2 Last Checkpoint: 8 minutes ago (autosaved)

File Edit View Insert Cell Kernel Widgets Help Notebook saved Trusted Python 3

Run Code

In [4]:
```
# Logical operators
# and , or, !
```

In [5]:
```
# and operator combines two boolean expressions
# compound expression

(num1 > 0) and (num1 > num2)
```

Out[5]:
```
False
```

In [7]:
```
(num1 > 0) or (num1 < num2)
```

Out[7]:
```
True
```

In [ ]:
```
# Truth Table
X    Y    X and Y    X or Y    !X
```

BITS Pilani

jupyter Untitled2 Last Checkpoint: a few seconds ago (autosaved)

Logout

File Edit View Insert Cell Kernel Widgets Help Checkpoint created: 11:55:12 Trusted Python 3

Run Code

```
(num1 > 0) and (num1 > num2)
```

Out[5]: False

In [7]:
```
(num1 > 0) or (num1 < num2)
```

Out[7]: True

In [ ]:
```
# Truth Table
X    Y     X and Y    X or Y    !X
================================
T    T        T          T       F
T    F        F          T       F
F    T        F          T       T
F    F        F          F       T
```

BITS Pilani

jupyter Untitled2 Last Checkpoint: 4 minutes ago (unsaved changes)

Logout

File Edit View Insert Cell Kernel Widgets Help Trusted Python 3

Run Code

Out[7]: True

In [ ]:
```
# Truth Table
X    Y     X and Y    X or Y    !X
==========================================
T    T        T          T       F
T    F        F          T       F
F    T        F          T       T
F    F        F          F       T
```

Decision Stuctures or Selection Structures

In [ ]:

PRASHANT LAKHANPAL

BITS Pilani

jupyter Untitled2 Last Checkpoint: 5 minutes ago (unsaved changes)

Logout

File Edit View Insert Cell Kernel Widgets Help Trusted Python 3

Run Code

```
X    Y     X and Y    X or Y    !X
==================================
T    T       T          T       F
T    F       F          T       F
F    T       F          T       T
F    F       F          F       T
```

Decision Stuctures or Selection Structures

In [8]:
```
# Sequence Structure
# Selection Structure
# Repetition Structure
```

In [ ]:

PRADYUMNA KUMAR SATAPATHY

BITS Pilani

jupyter Untitled2 Last Checkpoint: 7 minutes ago (unsaved changes)

File Edit View Insert Cell Kernel Widgets Help

Trusted | Python 3

Run | Code

In [8]:
```
# Sequence Structure
# Selection Structure
# Repetition Structure
```

In [ ]:
```
# Simple selection structure - single structure

# if <conditon>:
#    execute the statement

# Dual selection structure

# if <condition>:
#     execute statement 1
# else:
#     execute another statement
```

jupyter Untitled2 Last Checkpoint: 10 minutes ago (unsaved changes)

Logout

File Edit View Insert Cell Kernel Widgets Help Trusted Python 3

Run Code

```
    print("2) another statment")

print("3) End of if condition")
```

```
1) number is  5
2) another statment
3) End of if condition
```

In [11]:
```
num = 5
if (num > 5):
    print("1) number is ", num)
    print("2) another statment")

print("3) End of if condition")
```

```
3) End of if condition
```

In [ ]:

BITS Pilani

jupyter Untitled2 Last Checkpoint: 13 minutes ago (unsaved changes)

Logout

File Edit View Insert Cell Kernel Widgets Help Trusted Python 3

Run Code

In [13]:
```
num = int(input("Enter a number: "))

if (num % 2 == 0):
    print("1)", num, "is even") # if-block
else:
    print("2)", num, "is odd") #else-block

print("3) End of if condtion")
```

```
Enter a number: 8
1) 8 is even
3) End of if condtion
```

In [ ]:
```
# Multiple selection structure
```

jupyter Untitled2 Last Checkpoint: a few seconds ago (unsaved changes)

Logout

File Edit View Insert Cell Kernel Widgets Help Trusted Python 3

Run Code

3) End of if condition

In [14]:
```
# Multiple selection structure
num = 5

if (num == 5):
    print("Number is 5")
else:
    if(num > 5):
        print("Number is greater than 5")
    else:
        print("Number is less than 5")

print("This statement always executes")
```

```
  File "<ipython-input-14-24debc5ad802>", line 6
    else:
    ^
SyntaxError: invalid syntax
```

In [ ]:

SONAWANE UMESH LAXMAN

BITS Pilani

jupyter Untitled2 Last Checkpoint: a minute ago (unsaved changes)

File Edit View Insert Cell Kernel Widgets Help Trusted Python 3

3) End of if condition

In [15]:
```
# Multiple selection structure and also nested structure
num = 5

if (num == 5):
    print("Number is 5")
else:
    if(num > 5):
        print("Number is greater than 5")
    else:
        print("Number is less than 5")

print("This statement always executes")
```

```
Number is 5
This statement always executes
```

In [ ]:

jupyter Untitled2 Last Checkpoint: a minute ago (unsaved changes)

Logout

File Edit View Insert Cell Kernel Widgets Help

Trusted | Python 3

Run Code

```
print("This statement always executes")
```

```
Number is 5
This statement always executes
```

In [ ]:
```
num = 5

if (num == 5):
    print("Number is 5")
else:
    if(num > 5):
        print("Number is greater than 5")
    else:
        print("Number is less than 5")

print("This statement always executes")
```

jupyter Untitled2 Last Checkpoint: 2 minutes ago (unsaved changes)

Logout

File Edit View Insert Cell Kernel Widgets Help Trusted Python 3

Run Code

```
print("This statement always executes")
```

```
Number is 5
This statement always executes
```

In [ ]:
```
num = 5

if (num == 5):
    print("Number is 5")
elif (num > 5):
    print("Number is greater than 5")
    else:
        print("Number is less than 5")

print("This statement always executes")
```

S GANGADHARAN
@yeena default comes under switch-case clause not in if else clause
Imperius

BITS Pilani

jupyter Untitled2 Last Checkpoint: 2 minutes ago (unsaved changes)

Logout

File Edit View Insert Cell Kernel Widgets Help Trusted Python 3

Run Code

In [15]:
```
# Multiple selection structure and also nested structure
num = 5

if (num == 5):
    print("Number is 5")
else:
    if(num > 5):
        print("Number is greater than 5")
    else:
        print("Number is less than 5")

print("This statement always executes")
```

```
Number is 5
This statement always executes
```

In [ ]:
```
num = 5

if (num == 5):
    print("Number is 5")
elif (num > 5):
    print("Number is greater than 5")
else:
    print("Number is less than 5")
```

SHEIKH ISRAR AHMED ANSAR HUSSAIN

BITS Pilani

jupyter Untitled2 Last Checkpoint: 2 minutes ago (unsaved changes)

Logout

File Edit View Insert Cell Kernel Widgets Help Trusted Python 3

Run Code

```
        print("Number is less than 5")

print("This statement always executes")
```

```
Number is 5
This statement always executes
```

In [ ]:
```
num = 5

if (num == 5):
    print("Number is 5")
elif (num > 5):
    print("Number is greater than 5")
else:
    print("Number is less than 5")

print("This statement always executes")
```

BITS Pilani

jupyter Untitled2 Last Checkpoint: 3 minutes ago (unsaved changes)

Logout

File Edit View Insert Cell Kernel Widgets Help Trusted Python 3

Run Code

```
if (num == 5):
    print("Number is 5")
elif (num > 5):
    print("Number is greater than 5")
else:
    print("Number is less than 5")

print("This statement always executes")
```

```
Number is greater than 5
This statement always executes
```

In [ ]:
```
marks = int(input("Enter your score: "))

if
```

BITS Pilani

jupyter Untitled2 Last Checkpoint: 4 minutes ago (unsaved changes)

Logout

File Edit View Insert Cell Kernel Widgets Help Trusted Python 3

Run Code

```
    print("Number is 5")
elif (num > 5):
    print("Number is greater than 5")
else:
    print("Number is less than 5")

print("This statement always executes")
```

```
Number is greater than 5
This statement always executes
```

In [ ]:
```
marks = int(input("Enter your score: "))

if marks > 80:
    print("Congrats!!! you got distinction")
elif (marks)
```

BITS Pilani

jupyter Untitled2 Last Checkpoint: 6 minutes ago (unsaved changes)

Logout

File Edit View Insert Cell Kernel Widgets Help Trusted Python 3

Run Code

```
    print("Number is less than 5")

print("This statement always executes")
```

```
Number is greater than 5
This statement always executes
```

In [ ]:

```
marks = int(input("Enter your score: "))

if marks > 80:
    print("Congrats!!! you got distinction")
elif (marks <= 80 and marks > 60):
    print("You got first class")
elif (marks <= 60 and marks > 35):
    print("You got second class")
elif (marks <= 35 and marks >= 0):
    print("")
```

BITS Pilani

jupyter Untitled2 Last Checkpoint: 6 minutes ago (unsaved changes)

Logout

File Edit View Insert Cell Kernel Widgets Help Trusted Python 3

Run Code

```
    print("Number is less than 5")

print("This statement always executes")
```

```
Number is greater than 5
This statement always executes
```

In [ ]:

```
marks = int(input("Enter your score: "))

if marks > 80:
    print("Congrats!!! you got distinction")
elif (marks <= 80 and marks > 60):
    print("You got first class")
elif (marks <= 60 and marks > 35):
    print("You got second class")
elif (marks <= 35 and marks >= 0):
    print("Sorry!! you need to retake the exam")
else
```

SANJEEV KUMAR SINHA
so we will continue

BITS Pilani

jupyter Untitled2 Last Checkpoint: 6 minutes ago (unsaved changes)

Logout

File Edit View Insert Cell Kernel Widgets Help Trusted Python 3

Run Code

```
elif (num > 5):
    print("Number is greater than 5")
else:
    print("Number is less than 5")

print("This statement always executes")
```

```
Number is greater than 5
This statement always executes
```

In [17]:
```
marks = int(input("Enter your score: "))

if marks > 80:
    print("Congrats!!! you got distinction")
elif (marks <= 80 and marks > 60):
    print("You got first class")
elif (marks <= 60 and marks > 35):
    print("You got second class")
elif (marks <= 35 and marks >= 0):
    print("Sorry!! you need to retake the exam")
else:
    print("Invalid score")
```

```
Enter your score: 95
Congrats!!! you got distinction
```

jupyter Untitled2 Last Checkpoint: 7 minutes ago (unsaved changes)

File Edit View Insert Cell Kernel Widgets Help Trusted Python 3

Run Code

```
if marks > 80:
    print("Congrats!!! you got distinction")
elif (marks <= 80 and marks > 60):
    print("You got first class")
elif (marks <= 60 and marks > 35):
    print("You got second class")
elif (marks <= 35 and marks >= 0):
    print("Sorry!! you need to retake the exam")
else:
    print("Invalid score")
```

```
Enter your score: 65
You got first class
```

In [ ]:

```
number = input("Enter a number: ")

if (number > 5):
    print("number is greater than 5")
```

S GANGADHARAN
yes lets execute ourselves

BITS Pilani

jupyter Untitled2 Last Checkpoint: 8 minutes ago (unsaved changes)

Logout

File Edit View Insert Cell Kernel Widgets Help Trusted Python 3

Run Code

```
else:
    print("Invalid score")
```

```
Enter your score: 65
You got first class
```

In [19]:

```
number = input("Enter a number: ")

if (number > 5):
    print("number is greater than 5")
else:
    print("number is not greater than 5")

print("Statement outside if structure")
```

```
Enter a number: 25

---------------------------------------------------------------------------
TypeError                                 Traceback (most recent call last)
<ipython-input-19-bed505917ac6> in <module>
      1 number = input("Enter a number: ")
      2
----> 3 if (number > 5):
      4     print("number is greater than 5")
      5 else:
```

jupyter Untitled2 Last Checkpoint: a few seconds ago (autosaved)

Logout

File Edit View Insert Cell Kernel Widgets Help Trusted Python 3

Run Code

You got first class

In [19]:
```
number = input("Enter a number: ")

if (number > 5):
    print("number is greater than 5")
else:
    print("number is not greater than 5")

print("Statement outside if structure")
```

```
Enter a number: 25

---------------------------------------------------------------------------
TypeError                                 Traceback (most recent call last)
<ipython-input-19-bed505917ac6> in <module>
      1 number = input("Enter a number: ")
      2
----> 3 if (number > 5):
      4     print("number is greater than 5")
      5 else:

TypeError: '>' not supported between instances of 'str' and 'int'
```

BITS Pilani

jupyter Untitled2 Last Checkpoint: a few seconds ago (autosaved)

File Edit View Insert Cell Kernel Widgets Help Trusted Python 3

Run Code

You got first class

In [19]:
```
number = input("Enter a number: ")

if (number > 5):
    print("number is greater than 5")
else:
    print("number is not greater than 5")

print("Statement outside if structure")
```

```
Enter a number: 25

---------------------------------------------------------------------------
TypeError                                 Traceback (most recent call last)
<ipython-input-19-bed505917ac6> in <module>
      1 number = input("Enter a number: ")
      2
----> 3 if (number > 5):
      4     print("number is greater than 5")
      5 else:

TypeError: '>' not supported between instances of 'str' and 'int'
```

BITS Pilani

jupyter Untitled2 Last Checkpoint: 2 minutes ago (autosaved)

Logout

File Edit View Insert Cell Kernel Widgets Help Trusted Python 3

Run Code

```
    if (number > 5):
        print("number is greater than 5")
    else:
        print("number is not greater than 5")

except:
    print("Something went wrong!!!")

print("Statement outside if structure")
```

```
Enter a number: 25
Something went wrong!!!
Statement outside if structure
```

In [ ]:

VISHAL GUPTA
If want to print the error in except block
Impartus

BITS Pilani

Google Drive (amalkishna.dam) | Untitled - Jupyter Notebook | Untitled1 - Jupyter Notebook | Untitled2 - Jupyter Notebook | Loading...

about:blank

Apps | Teaching | SecState | Training and Develo... | Other bookmarks

DEVESH KUMAR SHARMA
sure. thanks sir
Hospitals

BITS Pilani
Pilani | Dubai | Goa | Hyderabad
Work Integrated Learning Programs

ENG 12:24 PM 4/5/2020

jupyter

(autosaved)

Logout

File Edit View Insert Cell Kernel Help

Loading notebook

Kernel

Run

Code

DEVESH KUMAR SHARMA

BITS Pilani

jupyter Untitled3 Last Checkpoint: a few seconds ago (unsaved changes)

Logout

File Edit View Insert Cell Kernel Widgets Help

Kernel starting, please wait... Trusted Python 3

Run Code

```
In [ ]:
```

SUBRAMANIYAN VENKATRAMAN R

Sir please help us how to put breakpoint and debug the code.

BITS Pilani

jupyter Untitled2 Last Checkpoint: 3 minutes ago (autosaved)

Logout

File Edit View Insert Cell Kernel Widgets Help Trusted Python 3

Run Code

In [ ]:
```
# Truth Table
X    Y     X and Y    X or Y    !X
==========================
T    T        T          T       F
T    F        F          T       F
F    T        F          T       T
F    F        F          F       T
```

Decision Stuctures or Selection Structures

In [8]:
```
# Sequence Structure
# Selection Structure
# Repetition Structure
```

In [9]:
```
# Simple selection structure - single structure

# if <conditon>:
#    execute the statement

# Dual selection structure

# if <condition>:
#    execute statement 1
```

ADITYA SHARMA
any mock assignment?
Impartus

BITS Pilani

jupyter Untitled2 Last Checkpoint: 3 minutes ago (autosaved)

File Edit View Insert Cell Kernel Widgets Help Trusted Python 3

In [7]:
```
(num1 > 0) or (num1 < num2)
```

Out[7]: True

In [ ]:
```
# Truth Table
X    Y     X and Y    X or Y    |X
================================
T    T        T          T       F
T    F        F          T       F
F    T        F          T       T
F    F        F          F       T
```

Decision Stuctures or Selection Structures

In [8]:
```
# Sequence Structure
# Selection Structure
# Repetition Structure
```

In [9]:
```
# Simple selection structure - single structure

# if <conditon>:
#    execute the statement
```

ADITYA SHARMA
any mock assignment?
Unwatch

BITS Pilani

jupyter Untitled2 Last Checkpoint: 5 minutes ago (autosaved)

File Edit View Insert Cell Kernel Widgets Help Trusted Python 3

```
# Nested selection structures
```

In [10]:
```
num = 5
if (num == 5):
    print("1) number is ", num)
    print("2) another statment")

print("3) End of if condition")
```

```
1) number is  5
2) another statment
3) End of if condition
```

In [11]:
```
num = 5
if (num > 5):
    print("1) number is ", num)
    print("2) another statment")

print("3) End of if condition")
```

```
3) End of if condition
```

In [13]:
```
num = int(input("Enter a number: "))
```

MUTHARASAN R

While using or condition, if the first condition is true whether the second condition will execute or not? the result of first expression is goes to can inserts.

BITS Pilani

jupyter Untitled2 Last Checkpoint: 5 minutes ago (autosaved)

Logout

File Edit View Insert Cell Kernel Widgets Help Trusted Python 3

Run Code

```
    if (number > 5):
        print("number is greater than 5")
    else:
        print("number is not greater than 5")

except:
    print("Something went wrong!!!")

print("Statement outside if structure")
```

```
Enter a number: 25
Something went wrong!!!
Statement outside if structure
```

In [ ]:

BITS Pilani