.....ASSIGMENT AI BATCH 3....27/11/19.....

In [137]:

```
dir(name)
```

Out[137]:

```
['__add__',
 '__class__',
 '__contains__',
 '__delattr__',
 '__dir__',
 '__doc__',
 '__eq__',
 '__format__',
 '__ge__',
 '__getattribute__',
 '__getitem__',
 '__getnewargs__',
 '__gt__',
 '__hash__',
 '__init__',
 '__init_subclass__',
 '__iter__',
 '__le__',
 '__len__',
```

```
    '__lt__',
    '__mod__',
    '__mul__',
    '__ne__',
    '__new__',
    '__reduce__',
    '__reduce_ex__',
    '__repr__',
    '__rmod__',
    '__rmul__',
    '__setattr__',
    '__sizeof__',
    '__str__',
    '__subclasshook__',
    'capitalize',
    'casefold',
    'center',
    'count',
    'encode',
    'endswith',
    'expandtabs',
    'find',
    'format',
    'format_map',
    'index',
```

```
    'isalnum',
    'isalpha',
    'isascii',
    'isdecimal',
    'isdigit',
    'isidentifier',
    'islower',
    'isnumeric',
    'isprintable',
    'isspace',
    'istitle',
    'isupper',
    'join',
    'ljust',
    'lower',
    'lstrip',
    'maketrans',
    'partition',
    'replace',
    'rfind',
    'rindex',
    'rjust',
    'rpartition',
    'rsplit',
    'rstrip',
```

```
 'split',
 'splitlines',
 'startswith',
 'strip',
 'swapcase',
 'title',
 'translate',
 'upper',
 'zfill']
```

CAPITALIZE()

In [1]:

```
name = "My NamE is HaMZa i AM a sTuDent of PiAic iSlaMAbaD,baTch 3 OF aRtiFiciAl ir
print(name.capitalize())           #the capitalize() method converts the first chai
                                   #letter
```

```
My name is hamza i am a student of piaic islamabad,batch 3 of artifi
cial inttelligence
```

CASEFOLD()

In [2]:

```
print(name.casefold())              #The casefold() method is an aggressive lower()
                                    #strings for caseless matching. The casefold() r
                                    #present in a string. It is used for caseless m
```

```
my name is hamza i am a student of piaic islamabad,batch 3 of artifi
cial inttelligence
```

CENTE()

In [3]:

```
name1 = "my name is hamza"          #center() method alligns string to the center by
print(name1.center(20," "))         #left and right of the string.
print(name1.center(30,"7"))         #30 is total number of ibdex in this sentence wh
print(name1.center(17,"s"))          #we wannt to add on both side of string
print(name1.center(26,"h"))
```

```
  my name is hamza
7777777my name is hamza7777777
smy name is hamza
hhhhhmy name is hamzahhhhh
```

COUNT()

In [4]:

```
x = ('a','b','a','c','a','d')                                    #it is used to count
sentence = ('my name is hamza and hamza is my cousin also')      #list and index and
z = ('hamza','daud','pak','hamza','fruit')
print(x.count('a'))
print(sentence.count('my'))
print(z.count('hamza'))
```

```
3
2
2
```

END

In [5]:

```
print('my name is hamza',end=' ')
print('my name is hamza forever')
print('my name is hamza as a pakistani')
```

```
my name is hamza my name is hamza forever
my name is hamza as a pakistani
```

In [6]:

```
print('my name is hamza and i am from Pakistan',end='.') #The end key of print fun
print('i like to play hockey',end=' national game .')    #that needs to be appende
print('there are 12 players in hockey')
print('my father name is Muhammmad')
```

```
my name is hamza and i am from Pakistan.i like to play hockey nation
al game .there are 12 players in hockey
my father name is Muhammmad
```

ENDSWITH()

In [11]:

```
print(name.endswith('E'))        #it will match the latter with the latter present
print(name.endswith('n'))
print(name1.endswith('a'))
print(name1.endswith('h'))
```

```
True
False
True
False
```

EXPANDTABS()

In [22]:

```
name2 = "hamza\tis a PIAIC student"
name3 = "My NamE is HaMZa\ti AM a sTuDent of PiAic iSlaMAbaD\t,baTch 3 OF aRtiFici
print(name2.expandtabs(20))
print(name3.expandtabs(10))
```

```
hamza               is a PIAIC student
My NamE is HaMZa    i AM a sTuDent of PiAic iSlaMAbaD       ,baTch 3
OF aRtiFiciAl inTtelligenCE
```

FORMAT

In [24]:

```
name4 = 'my name is {fname} and {fname} is also my friend i have a lot of friends
print(name4.format(fname ='hamza'))
```

```
my name is hamza and hamza is also my friend i have a lot of friends
named as hamza
```

FIND()

In [27]:

```
print(name.find('my'))  #through this function you can get the position of a word
```

```
-1
```

FORMAT_MAP()

In [42]:

```
address={'area':'model town','city':'Islamabad','country':'Pakistan'}
print('{area} {city} {country}' .format_map(address))
```

```
model town Islamabad Pakistan
```

INDEX()

In [49]:

```
print(name.index('m')) #it will give you the index of na specified chaacte in a st
```

```
5
```

ISALNUM()

In [50]:

```
print(name.isalnum())      #tell you if sting is alphanumeic or not
```

```
False
```

ISALPHA()

In [53]:

```
name6 ='hamza'
name7 ='hamza89'
print(name6.isalpha())
print(name7.isalpha())
```

```
True
False
```

ISDECIMAL()

In [59]:

```
name8 ='hamza'                          #it can tell you that the string has any
name9 ='10'                             #which can be divided by 10
print(name.isdecimal())
print(name8.isdecimal())
print(name9.isdecimal())
```

```
False
False
True
```

ISDIGIT()

In [62]:

```
print(name.isdigit())                    #it can tell you will the sting holds any
print(name9.isdigit())                   #name9 = 10
```

```
False
True
```

ISIDENTIFIER()

In [65]:

```
name10 = 'hamzashaif'
name11 = 'hamza_shaif'
print(name.isidentifier())                #it can be used to detect the identifie
print(name10.isidentifier())
print(name11.isidentifier())              #spaces between the two words
```

```
False
True
True
```

ISLOWER()

In [69]:

```
print(name.islower())     #the all the wodrs of the string are small or not
print(name10.islower())
```

```
False
True
```

ISNUMERIC()

In [72]:

```
name12 = '67897h'
name13 = '800086'
print(name.isnumeric())   #the all the words of the string ae numbers or not
print(name12.isnumeric())
print(name13.isnumeric())
```

```
False
False
True
```

ISPRINTABLE()

In [76]:

```
print(name.isprintable())   #the all charactes of the string are printable or not
print(name12.isprintable())
```

```
True
True
```

ISSPACE()

In [79]:

```
name14 = '                '
print(name.isspace())   #all the string is included on whitespaces o not if it is
print(name14.isspace())
```

```
False
True
```

ISTITTLE()

In [82]:

```
name15 = 'My Name Is Hamza'
print(name.istitle())   #each alphabet of the each letter is upper case or not
print(name15.istitle())
```

```
False
True
```

ISUPPER()

In [84]:

```
name16 = 'MY NAME IS HAMZA'
print(name.isupper())           #whole string has upper case letter or not
print(name16.isupper())
```

```
False
True
```

JOIN ()

In [87]:

```
name17 ={'hamza','is','my','friend'}
print(' '.join(name17))
print('>>>>'.join(name17))
```

```
hamza is my friend
hamza>>>>is>>>>my>>>>friend
```

IJUST()

In [91]:

```
name18='i am livivng in  '
name18=name18.ljust(20)
print(name18,"islamabad")  #return 20 character space from left justified
```

```
i am livivng in      islamabad
```

LOWER()

In [92]:

```
print(name.lower())          #it will convet all the alphabets in samll letter
```

```
my name is hamza i am a student of piaic islamabad,batch 3 of artifi
cial inttelligence
```

ISTRIP()

In [98]:

```
name19 = "     hamza"
print(name19.lstrip())    #remove all spaces from the left side of the sting
```

```
hamza
```

PARTITION()

In [101]:

```
name='my name is hamza'
print(name.partition('hamza'))  #it will resturn a tuple
```

```
('my name is ', 'hamza', '')
```

REPLACE()

In [102]:

```
name = 'my name is hamza and i am student of BA'
print(name.replace('BA','PIaic islamabad of batch 3'))
```

```
my name is hamza and i am student of PIaic islamabad of batch 3
```

RFIND()

In [105]:

```
print(name.rfind('a'))    #find the index of the specified word and if index not f
```

```
23
```

RJUST()

In [112]:

```
name = 'islamabad'
print(name.rjust(25))
```

```
                islamabad
```

RPASRTITIOM()

In [116]:

```
name = "My NamE is HaMZa i AM a sTuDent of PiAic iSlaMAbaD,baTch 3 OF aRtiFiciAl i
print(name.rpartition('sTuDent'))     #split the specified wod into an  r index
```

```
('My NamE is HaMZa i AM a ', 'sTuDent', ' of PiAic iSlaMAbaD,baTch 3
OF aRtiFiciAl inTtelligenCE')
```

RSPLIT()

In [118]:

```
print(name.rsplit())        #convet string into list
```

```
['My', 'NamE', 'is', 'HaMZa', 'i', 'AM', 'a', 'sTuDent', 'of', 'PiAi
c', 'iSlaMAbaD,baTch', '3', 'OF', 'aRtiFiciAl', 'inTtelligenCE']
```

RSTRIP()

In [120]:

```
print(name.rstrip())
```

```
My NamE is HaMZa i AM a sTuDent of PiAic iSlaMAbaD,baTch 3 OF aRtiFi
ciAl inTtelligenCE
```

SPLIT()

In [122]:

```
print(name.split())
```

```
['My', 'NamE', 'is', 'HaMZa', 'i', 'AM', 'a', 'sTuDent', 'of', 'PiAi
c', 'iSlaMAbaD,baTch', '3', 'OF', 'aRtiFiciAl', 'inTtelligenCE']
```

SPLITLINES

In [124]:

```
print(name.splitlines())
```

```
['My NamE is HaMZa i AM a sTuDent of PiAic iSlaMAbaD,baTch 3 OF aRti
FiciAl inTtelligenCE']
```

STARTSWITH()

In [127]:

```
print(name.startswith('start '))   #it will tell you the first letter of sting wil
print(name.startswith('My'))
```

```
False
True
```

Strip()

In [128]:

```
print(name.strip())
```

```
My NamE is HaMZa i AM a sTuDent of PiAic iSlaMAbaD,baTch 3 OF aRtiFi
ciAl inTtelligenCE
```

swapcase()

In [129]:

```
print(name.swapcase())     #it will convet upper case letter into lower case lette
                           #upper case letter
```

```
mY nAMe IS hAmzA I am A StUdENT OF pIaIC IsLAmaBAd,BAtCH 3 of ArTIfI
CIaL INtTELLIGENce
```

tittle()

In [131]:

```
print(name.title())       #convet first letter of each wod in the sting into upper
```

```
My Name Is Hamza I Am A Student Of Piaic Islamabad,Batch 3 Of Artifi
cial Inttelligence
```

upper()

In [133]:

```
print(name.upper())  #convert all the letters of the sting into the upper case let
```

```
MY NAME IS HAMZA I AM A STUDENT OF PIAIC ISLAMABAD,BATCH 3 OF ARTIFI
CIAL INTTELLIGENCE
```

zfill()

In [136]:

```
name25 = 'hamza'
print(name25.zfill(7)) #add zero into the sting afte the total the wods inthe stri
```

```
00hamza
```

ERRORS

In [ ]:

```
#1)flush function......
#2)file function......
#3)sep function.......
#4)translate function.............
   #if any one will guide me about these 4 functions then it will help me a lot
                        #regads hamza
```