```
In [2]: import pandas as pd
          import numpy as np
In [10]: letter_list=np.array(["Anthony","Brutus","Caesar","Decimus"])
letters=pd.Series(letter_list)
          print(letters)
          print("Series object after all names are capitalised=")
          print(letters.str.capitalize())#str class has all vectorized python string functions
               Anthony
                Brutus
                Caesar
               Decimus
          dtype: object
          Series object after all names are capitalised=
              Anthony
                Brutus
                Caesar
               Decimus
          dtype: object
```

```
In [36]: jc=pd.Series(["Anthony","Brutus","Caesar","Cassius","Octovian","Portia","Decimus"])
         #trying out all string fucntions
         print(jc)
         print("\n")
         #Len
         print("len=")
         print(jc.str.len())
         print("\n")
         #Ljust
         print("ljust=")
         print(jc.str.ljust(10,"$"))
         #allign string to left, fist argument is length and second argument is the character used to fill blank characters print("\n")
         print("rjust=")
         print(jc.str.rjust(10,"$"))
         #allign string to right, fist argument is length and second argument is the character used to fill blank characters
         print("\n")
         #centre
         print("center=")
         print(jc.str.center(10,"$"))
         #allign string to center, fist argument is length and second argument is the character used to fill blank characters
         print("\n")
         #zfill
         print("zfill=")
         print(jc.str.zfill(10))
         #adds zeores until string reaches specified length
         print("\n")
         #Lstrip
         print("lstrip=")
         print(jc.str.lstrip("CasBruAn"))
         print("\n")
         #lstrip removes leading characters from left side by default it removes white spaces
         #rstrip
         print("rstrip=")
         print(jc.str.rstrip("arus"))
         #rstrip removes leading characters from left side by default it removes white spaces
         #find
         print("find=")
         print(jc.str.find("es"))
         print("\n")
         #finds index from which given substring is found, returns -1 if string not found
```

0 Anthony
1 Brutus
2 Caesar
3 Cassius
4 Octovian
5 Portia
6 Decimus
dtype: object

6 Decimus\$\$\$
dtype: object

rjust=
0 \$\$\$Anthony
1 \$\$\$\$Brutus
2 \$\$\$\$Cassius
4 \$\$Octovian
5 \$\$\$Portia
6 \$\$\$Decimus
dtype: object

zfill=
0 000Anthony
1 0000Brutus
2 0000Caesar
3 000Cassius
4 000ctovian
5 0000Portia
6 000Decimus
dtype: object

lstrip=
0 thony
1 tus
2 esar
3 ius
4 Octovian
5 Portia
6 Decimus
dtype: object

rstrip=
0 Anthony
1 Brut
2 Cae
3 Cassi
4 Octovian
5 Porti
6 Decim
dtype: object

find=
0 -1
1 -1
2 2
3 -1
4 -1
5 -1
6 -1
dtype: int64

```
In [48]: #rfind
         print("rfind=")
         print(jc.str.find("a"))
         print("\n")
         #finds index from which last occurence of given substring is found, returns -1 if string not found
         #swapcase
         print("swapcase=")
         print(jc.str.swapcase())
         print("\n")
         #makes lowercase characters as upper and uppercase characters as lower
         print("translate=")
         d={97:35,115:46}#replacing all 'a' with '#' and replacing all 's' with '.'
         print(jc.str.translate(d))
         print("\n")
         #translate takes dictionary with ASCII values as argument and maps characters as per dictionary
         #startswith
         print("startswith=")
         print(jc.str.startswith("C"))
         print("\n")
         #returns boolean value for the condition if string is starting with the particular character
         #endswith
         print("endswith=")
         print(jc.str.endswith("s"))
         print("\n")
         #returns boolean value for the condition if string is ending with the particular character
         s="Julius Caesar Is The King Of Rome"
         print("is title?=",s.istitle())#istitle returns true if all words start with uppercase
         print("split function=",s.split())#splits string to words by default splits strings by blank spaces
         print("partition function=",s.partition("Is"))#partition returns tuple with three elements:before match, match and after match
```

```
rfind=
   -1
    -1
1
2
    1
3
4
     5
6
   -1
dtype: int64
swapcase=
      aNTHONY
       bRUTUS
       cAESAR
3
      cASSIUS
     oCTOVIAN
4
       pORTIA
      dECIMUS
dtype: object
translate=
      Anthony
       Brutu.
       C#e.#r
2
3
      C#..iu.
4
     Octovi#n
       Porti#
      Decimu.
dtype: object
startswith=
     False
     False
2
      True
      True
4
     False
     False
5
     False
dtype: bool
endswith=
0
     False
      True
     False
3
      True
4
     False
     False
6
      True
dtype: bool
split function= ['Julius', 'Caesar', 'Is', 'The', 'King', 'Of', 'Rome'] partition function= ('Julius Caesar', 'Is', 'The King Of Rome')
```

1 Bru Cae Cas 0ct 5 Por Dec dtype: object get function= 1 2 s 4 n 5 а dtype: object names info 0 Anthony A/B Brutus B/C Caesar A/D Cassius C/D 4 Octovian A/D Portia A/C Decimus B/D get dummies= A B C D 1 1 0 0 1 0 1 1 0 0 0 0 0 1 1 4 1 0 0 1 5 1 0 1 0 6 0 1 0 1