In [69]:
```
# List Methods
#1. Append
list = [" Sai","Kumar", "Teja","Vinay","Nikhil"]
print(list)
```

```
[' Sai', 'Kumar', 'Teja', 'Vinay', 'Nikhil']
```

In [70]:
```
list.append("Bharath")
```

In [71]:
```
print(list)
```

```
[' Sai', 'Kumar', 'Teja', 'Vinay', 'Nikhil', 'Bharath']
```

In [66]:
```
#2. Remove
list.remove("Bharath")
print(list)
```

```
[' Sai', 'Kumar', 'Teja', 'Vinay', 'Nikhil', 'Bharath']
```

In [37]:
```
#  3.Reverse

list.reverse()
print(list)
```

```
['Bharath', 'Teja', 'Kumar', ' Sai']
```

In [38]:
```
 # 4. Insert an element
list.insert(2,"Vamshi")
print(list)
```

```
['Bharath', 'Teja', 'Vamshi', 'Kumar', ' Sai']
```

In [39]:
```
#5. Index ;
list.index("Vamshi")
```

Out[39]: 2

In [40]:
```
#6. Pop ;
list.pop(1)
print(list)
```

```
['Bharath', 'Vamshi', 'Kumar', ' Sai']
```

In [41]:
```
# 7. Count ;
list.count("Vamshi")
```

Out[41]: 1

In [52]:
```
# 8.  Extends
List1=[" Sai","Kumar", "Teja","Vinay"]
List2 =["Nani","Mintu"]
List1.extend(List2)
print(List1)
```

```
[' Sai', 'Kumar', 'Teja', 'Vinay', 'Nani', 'Mintu']
```

In [53]:
```
print(List1)
```

```
[' Sai', 'Kumar', 'Teja', 'Vinay', 'Nani', 'Mintu']
```

In [55]:
```
# 9. Sort
List1.sort()
print(List1)
```

```
[' Sai', 'Kumar', 'Mintu', 'Nani', 'Teja', 'Vinay']
```

In [56]:
```
# 10 Copy ;
My_list=List1.copy()
print(My_list)
```

```
[' Sai', 'Kumar', 'Mintu', 'Nani', 'Teja', 'Vinay']
```

In [57]:
```
# 11, Clear ;
My_list.clear()
```

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

```
[]
```

In [8]:
```

```

```
Hello I Am Sai Kumar
```

In [2]:
```
### String Methods
text= "Hello I Am Sai Kumar"
```

In [3]:
```
###1. Upper Case
print(text.upper())
```

```
HELLO I AM SAI KUMAR
```

In [4]:
```
##2. Lower Case
print(text.lower())
```

```
hello i am sai kumar
```

In [5]:
```
##3 .Title
print(text.title())
```

```
Hello I Am Sai Kumar
```

In [6]:
```
##4 .Captilize
print(text.capitalize())
```

```
Hello i am sai kumar
```

In [7]:
```
##5. SwapCase
print(text.swapcase())
```

```
hELLO i aM sAI kUMAR
```

In [8]:
```
##6. Strip
print(text.strip())
```

```
Hello I Am Sai Kumar
```

In [4]:
```
##7.Replace
print(text.replace("Sai", "Vinay"))
```

```
Hello I Am Vinay Kumar
```

In [5]:
```
##8 Find
print(text.find("Sai"))
```

```
11
```

In [6]:
```
##9. Split
print(text.split())
```

```
['Hello', 'I', 'Am', 'Sai', 'Kumar']
```

In [7]:
```
##10. Join
print(" ".join(text))
```

```
H e l l o   I   A m   S a i   K u m a r
```

In [8]:
```
##11.Index
print(text.index("Sai"))
```

```
11
```

In [9]:
```
##12.Count
print(text.count("Sai"))
```

```
1
```

In [10]:
```
##13. Startswith
print(text.startswith("H"))
```

```
True
```

In [11]:
```
##14. Endswith
print(text.endswith("Kumar"))
```

```
True
```

In [12]:
```
##15.zfill
print(text.zfill(50))
```

```
000000000000000000000000000000Hello I Am Sai Kumar
```

In [ ]:
```

```

In [13]:
```
##16.isalpha
print(text.isalpha())
```

```
False
```

In [14]:
```
##17.isdigit
print(text.isdigit())
```

```
False
```

In [15]:
```
##18.isalnum
print(text.isalnum())
```

```
False
```

In [16]:
```
##19.splitlines
print(text.splitlines())
```

```
['Hello I Am Sai Kumar']
```

In [17]:
```
### 3, SET METHODS
set = {"Sai", "Kumar", "Teja", "Vinay", "Nikhil"}
print(set)
```

```
{'Vinay', 'Sai', 'Nikhil', 'Kumar', 'Teja'}
```

In [ ]:
```
##1.Add

set.add("Bharath")
print(set)
```

```
{'Bharath', 'Vinay', 'Sai', 'Nikhil', 'Kumar', 'Teja'}
```

In [19]:
```
##2.Update
set.update(["Nani", "Mintu"])
print(set)
```

```
{'Bharath', 'Vinay', 'Sai', 'Mintu', 'Nikhil', 'Nani', 'Kumar', 'Teja'}
```

In [20]:
```
##3.Remove
set.remove("Mintu")
print(set)
```

```
{'Bharath', 'Vinay', 'Sai', 'Nikhil', 'Nani', 'Kumar', 'Teja'}
```

In [21]:
```
##4.discard
set.discard("Nani")
print(set)
```

```
{'Bharath', 'Vinay', 'Sai', 'Nikhil', 'Kumar', 'Teja'}
```

In [22]:
```
##5.pop
set.pop()
print(set)
```

```
{'Vinay', 'Sai', 'Nikhil', 'Kumar', 'Teja'}
```

In [ ]:
```
#6 Union
set2={"Ravi", "Raju"}
set3=set.union(set2)
print(set3)
```

```
{'Vinay', 'Sai', 'Ravi', 'Nikhil', 'Raju', 'Kumar', 'Teja'}
```

In [24]:
```
##7.difference
set4=set.difference(set2)
print(set4)
```

```
{'Vinay', 'Sai', 'Nikhil', 'Kumar', 'Teja'}
```

In [25]:
```
##8.intersection
set5=set.intersection(set2)
print(set5)
```

```
set()
```

In [26]:
```
##9.subset
print(set.issubset(set2))
print(set)
```

```
False
{'Vinay', 'Sai', 'Nikhil', 'Kumar', 'Teja'}
```

In [ ]:
```

```

In [27]:
```
##10.copy
set6=set.copy()
print(set6)
```

```
{'Vinay', 'Sai', 'Nikhil', 'Kumar', 'Teja'}
```

In [28]:
```
##11.clear
set.clear()
```