```python
name = "niraj kumar"
# print(type(name))
#
nameList = ["niraj", "kumar", "bridgelabz", "niraj"]
# print(type(nameList))
#
nameTuple = ("niraj", "kumar", "bridgelabz")
# print(type(nameTuple))
#
# #comparison
# name1 = "niraj kumar"
# print(name == name1)
#
# print(["niraj" ,"kumar", "bridgelabs"] == nameList)


# containment testing
nameSub = "niraj"
print(nameSub in name)

namesub2 = "raju"  # subsequence search
print(namesub2 not in name)

print(["niraj"] in nameList)

# concatenation and reptition
name1 = "vinay"
name2 = "kumar"
print(name1 + " " + name2)

nameList2 = ["vinay", "kumar", "capegmini"]
print(nameList + nameList2)

repeatedName = ("name" + " ") * 3
print(repeatedName)

# print(nameList2[-4])

# print(nameTuple[1])

name3 = " gaurav tiwari "
print(len(name3))
print(name3[-1:2:1])
print(nameList2[:3])
print(nameList2[1:])
print(name3[4:])
print(name3[:9])
print(name3[3:9:1])
print(name3[3:9:2])
print(name3.index("a", 0, 10))

''' string to list'''
print(name3.split(","))

'''list to string'''
print(type('$'.join(nameList2)))
```

```python
print(name3.replace('tiwari', 'tripathi'))
print(name3.strip())

# String formatting
firstname = "vinay"
lastname = "kumar"
msg = "Hi my first name is {} and my last name is
{}".format(firstname, lastname)
print(msg)
print(f"Hi my first name is {firstname} and my last name is
{lastname}")

#List functions
print(nameList)
nameList.append("jamshedpur")
print(nameList)

print(nameList.pop())
print(nameList)

nameList.insert(0, "jamshedpur")
print(nameList)

nameList.remove("niraj")
print(nameList.pop(2))
print(nameList)
print("*" * 100)
print(list(nameTuple))
print(len(nameList))
print(max([1,5,8,4,3]))
```