```
"""
String :
    1.immutable / can not change
    2.enclosed by '' single quote
        "" double qoute
        """ """ triple quote
    3.string is a sequence of character each
  character having uniq position id and index


string='arjun'
print(type(string))
s="arjun"
print(type(s))



#Traversing string : acess all element one bye one
name ="arjun"
for i in name:
    print(i,"-",end=" ")


#reverse string:
str=input("Enter a name:")
print(str[::-1]) #using slicing horizonatal printing
length=len(str)
for i in range(-1,(-length-1),-1): #vertical printing
    print(str[i])

str=input("Enter a name:")
#print(str[::-1]) #using slicing horizonatal printing
length=len(str)
i=0
for a in range(-1,(-length-1),-1): #vertical printing
    print(str[i],"\t",str[a])
    i=i+1

print(str[0::],str[::-1])


#String Operation:
```

```
44      1.+ concatination
45      2.* repetation
46      3.membership operator[in // not in]
47      4.comparision /relational  operator
48
49  str1=input("Enter a string :")
50  str2=input("Enter a string")
51  #concatinate operation
52  print(str1,"\t"+str2)  #\t space
53
54  x=int(input("How many time reapet your output : "))
55  for i in range (x):
56      print(str1,str2)
57
58  str1=input("Enter a string: ")
59  x=str1*100 # repite 100 time
60  print(x)
61
62
63  a="arjun"
64  b=3
65  print(a+b)
66  conclusion : can not concatinate string and number
67  ---------------------------------
68  a="arjun"
69  b="narale"
70  print(a*b)
71  conclusion : can not reapeate / multiply string and
    sting
72  ---------------------------------
73
74  #operator in string :
75      1.==
76      2.+=
77      3.-=
78      4.*=
79      5./=
80      6.//=
81      7.%=
82      8.!=
83
84
85  str1=input("Enter a string: ")
86  str2=input("Enter a string : ")
```

```
 87 print(str1==str2)
 88 s="arjun"
 89 for i in str1,str2:
 90     s=s+str1
 91     print(s)
 92     str1+=str2
 93
 94 # string slicing
 95 string=input("Enter a any name/character to print
    pattern")
 96 pattern=" "
 97 x=int(input("pattern size : "))
 98 for i in range(x):
 99     pattern=pattern+string
100     print(pattern)
101
102
103 str=input("Enter a string :")
104 print(str[1::1])
105
106
107 # string Functions:
108 str=input("Enter a string :")
109 print(str.capitalize())
110 print(str.isalnum()) # if true string elements is
    alphanumeric number
111 print(str.isalpha()) # if true string elements is
    alphabets
112 print(str.isdigit()) # if true string elements is
    degits
113 print(str.islower()) # if true string elements is
    lowercase
114 print(str.isspace()) # if true whitespace in string
115 print(str.isupper())
116 print(str.upper())
117 print(str.lower())
118 print(str.lstrip())
119 print(str.rstrip([0]))
120
121
122 line=input("Enter a name :")
123 lowercount=uppercount=0
124 digitcount=apphabetcount=0
125 for a in line:
```

```
126     if a.islower():
127         lowercount+=1
128     elif a.isupper():
129         uppercount+=1
130     elif a.isdigit():
131         digitcount+=1
132     elif a.isalpha():
133         apphabetcount+=1
134 print("name of uppercase is ",uppercount)
135 print("Name of lowercount: ",lowercount)
136 print("Name of degit count:",digitcount)
137 print("Name of alpphacount",apphabetcount)
138
139
140
141 while True:
142     str=open("ar.txt","r")
143     lowercount=uppercount=0
144     digitcount=apphabetcount=0
145     for a in str:
146         if a.islower():
147             lowercount+=1
148         elif a.isupper():
149             uppercount+=1
150         elif a.isdigit():
151             digitcount+=1
152         elif a.isalpha():
153             apphabetcount+=1
154     print("name of uppercase is ",uppercount)
155     print("Name of lowercount: ",lowercount)
156     print("Name of degit count:",digitcount)
157     print("Name of alpphacount",apphabetcount)
158     break
159
160
161 l=[]
162 file=open("arjun.txt","r")
163
164 x=input("Enter a name:")
165 l.append(x)
166 l.append(x)
167 print(l)
168 """
169
```