String

In [ ]:
```
str='hello world!'
print(str)
print(str[0])
print(str[2:5])
print(str[2:])
print(str*2)
print(str+"Test")
```

```
hello world!
h
llo
llo world!
hello world!hello world!
hello world!Test
```

In [ ]:
```
str.upper()
```

Out[ ]:
```
'HELLO WORLD!'
```

In [ ]:
```
str.lower()
```

Out[ ]:
```
'hello world!'
```

store elements of a string to the list

In [ ]:
```
strList=str.split(" ")
strList
```

Out[ ]:
```
['hello', 'world!']
```

Conditional Statements and Loops

In [ ]:
```
a = 7
if(a==6):
    print(a)
else:
    print("not 6")
```

```
not 6
```

In [ ]:
```
b = input("enter the no. : ")
print(2+int(b))
```

```
68
```

In [ ]:
```
list=[2, 'helo', 5.2, 9, "hii", 1.2]
slist=[]
ilist=[]
clist=[]
for elem in list:
    if(type(elem)==int):
        ilist.append(elem)
    elif(type(elem)==type('str')):
        slist.append(elem)
    elif(type(elem)==float):
```

```
        clist.append(elem)
print(ilist)
print(slist)
print(clist)
```

```
[2, 9]
['helo', 'hii']
[5.2, 1.2]
```

In [ ]:

```
for i in range(0, 10, 3):
    print(i, end=" ")
print()
for i in range(0, -4, -1):
    print(i, end=" ")
```

```
0 3 6 9
0 -1 -2 -3
```

Functions

In [ ]:

```
def myFunction(myList):
    myList.append([1, 2, 3, 4])
    print("Inside : ", myList)
    return

myList = [7, 3]
myFunction(myList)
print("Outside : ", myList)
```

```
Inside :  [7, 3, [1, 2, 3, 4]]
Outside :  [7, 3, [1, 2, 3, 4]]
```

In [ ]:

```
total=0

def sum(arg1, arg2):
    total=arg1+arg2
    print("Inside : ", total)
    return total

sum(10, 20)
print("Outside : ", total)
```

```
Inside :  30
Outside :  0
```

Data Frame

In [ ]:

```
import pandas as pd
list=['Geeks', 'For', "Geeks", "is", "portal", "for", "geeks"]
df=pd.DataFrame(list)
print(df)
```

```
        0
0   Geeks
1     For
2   Geeks
3      is
4  portal
5     for
6   geeks
```

In [ ]:

```
as pd
```

```
dict={'name':['Rohit', "Jeet"], 'age': [20, 25]}
df=pd.DataFrame(dict)
print(df)
```

```
   name  age
0  Rohit   20
1   Jeet   25
```

In [ ]:

```
data={'name': ['jai', 'prince', 'gaurav', 'anuj'], 'age': [27, 24, 22, 32], 'address': ['d

# print(df)
df2=pd.DataFrame(data)
print(df2)
print(df2[['name', 'qualification']])
row2=df2.iloc[2, 1]
row2
print(row2)
```

```
     name  age    address qualification
0     jai   27      delhi           MSc
1  prince   24     kanpur            MA
2  gaurav   22  allahabad           MCA
3    anuj   32    kannauj           Phd
     name qualification
0     jai           MSc
1  prince            MA
2  gaurav           MCA
3    anuj           Phd
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```

Anshul Singla CSE-1 20051562 16/01/2023