▾ Practical-3

▾ Aim :

1. Do the slicing of a given String to generate various substring by passing different index (like positive index, negative index, end index > string length, entire string), split this string into chunks of length 3 using list comprehension, split the string with specific character, iterate over the words of string. Apply trim, toupper, tolower, replace string and character, title, join and other operations on String. Perform add, union, intersection, difference, symmetric_difference, union, intersection_update, symmetric_difference_update, difference_update, discard, issubset, issuperset, isdisjoint, remove, pop and clear operations on Set.

```python
print("12002040701067")

def Seperator():
  print("-------------------------------------------------------------------

string="HunaidSiamwala"
s=" I Am Student Of MBIT"
n=3
#split string
s1=slice(3)
s2=slice(-3)
s3=slice(1,6,3)

print(string[s1])
print(string[s2])
print(string[s3])
print(string)
print([string[i:i+n] for i in range(0,len(string),n)])
print(string.split('N'))
r=s.split()
Seperator()

print("The Words Of String Are :")
for i in r:
  print(i)
Seperator()

print("String Before Trimming :")
print(s)
Seperator()

print("String After Trimming :")
print(s.strip())
print(s.upper())
print(s.lower())
Seperator()
```

```python
print("Replace Elements In String :")
print(string.replace('Harshad','HARSHAD'))
Seperator()

print("Retrieving String Title :")
print(s.title())
Seperator()

print("Performing Join Op. On String :")
a='-'
print(a.join(string))
Seperator()

print("ASCII Equivalent Character : ")
result=chr(97)
print(result)
Seperator()

a={'1','2','3','4'}
b={'5','6','7'}
print("Performing Union Op. On Set :")
c=a.union(b)
print(c)
Seperator()

print("Performing Add Op. On Set :")
a.add('5')
print(a)
Seperator()

print("Performing Intersection Op. On Set :")
print(a.intersection(b))
Seperator()

print("Performing Difference Op. On Set :")
print(a.difference(b))
Seperator()

print("Performing Symmetric Difference Op. On Set :")
print(a.symmetric_difference(b))
Seperator()

print("Performing Intersection Update Op. On Set :")
set.intersection_update(a,b)
print(a)
Seperator()

g={'a','c','d'}
h={'c','d','e'}
print("Performing Difference Update Op. On Set :")
g.difference_update(h)
print(g)
Seperator()
```

```python
a1={'a','c','d'}
b1={'c','d','e'}

print("Performing Symmetric Difference Op. On Set :")
a1.symmetric_difference_update(b1)
print(a1)
Seperator()

print("Discard Element From Set :")
b1.discard('d')
print(b1)
Seperator()

print("Remove Element From Set :")
b1.remove('c')
print(b1)
Seperator()

print("Checking Whether The Set Is A Subset,Superset or Disjointset :")
print("Set b1 =",b1)
print("Set a1 =",a1)
print(b1.issubset(a1))
print(b1.issuperset(a1))
print(b1.isdisjoint(a1))
Seperator()

a2={'q','r','s'}
print("Performing Pop Op. On Set :")
a2.pop()
print(a2)
Seperator()

print("Clearing Set :")
a2.clear()
print(a2)
Seperator()
```

```
⌐→  12002040701067
    Hun
    HunaidSiamw
    ui
    HunaidSiamwala
    ['Hun', 'aid', 'Sia', 'mwa', 'la']
    ['HunaidSiamwala']
    -------------------------------------------------------------------
    The Words Of String Are :
    I
    Am
    Student
    Of
    MBIT
    -------------------------------------------------------------------
    String Before Trimming :
     I Am Student Of MBIT
    -------------------------------------------------------------------
    String After Trimming :
```

```
 I Am Student Of MBIT
 I AM STUDENT OF MBIT
 i am student of mbit
-------------------------------------------------------------------------------
Replace Elements In String :
HunaidSiamwala
-------------------------------------------------------------------------------
Retrieving String Title :
 I Am Student Of Mbit
-------------------------------------------------------------------------------
Performing Join Op. On String :
H-u-n-a-i-d-S-i-a-m-w-a-l-a
-------------------------------------------------------------------------------
ASCII Equivalent Character :
a
-------------------------------------------------------------------------------
Performing Union Op. On Set :
{'5', '4', '3', '7', '6', '1', '2'}
-------------------------------------------------------------------------------
Performing Add Op. On Set :
{'4', '1', '2', '3', '5'}
-------------------------------------------------------------------------------
Performing Intersection Op. On Set :
{'5'}
-------------------------------------------------------------------------------
Performing Difference Op. On Set :
{'1', '4', '3', '2'}
-------------------------------------------------------------------------------
Performing Symmetric Difference Op. On Set :
{'4', '6', '1', '2', '3', '7'}
-------------------------------------------------------------------------------
Performing Intersection Update Op. On Set :
{'5'}
-------------------------------------------------------------------------------
Performing Difference Update Op. On Set :
{'a'}
-------------------------------------------------------------------------------
Performing Symmetric Difference Op. On Set :
```

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