

1. Converting an Integer into Decimals

```
In [ ]: import decimal
integer = 10
print(decimal.Decimal(integer))
print(type(decimal.Decimal(integer)))
```

2. Converting an String of Integers into Decimals

```
In [ ]: import decimal
string = '12345'
print(decimal.Decimal(string))
print(type(decimal.Decimal(string)))
```

3. Reversing a String using an Extended Slicing Technique

```
In [ ]: string = "Python Programming"
print(string[::-1])
```

4. Counting VOWELS in a Given Word

```
In [ ]: vowel = ['a', 'e', 'i', 'o', 'u']
word = "programming"
count = 0
for character in word:
    if character in vowel:
        count += 1
print(count)
```

5. Counting CONSONANTS in a Given Word

```
In [ ]: vowel = ['a', 'e', 'o', 'i', 'u']
word = "programming"
count = 0
for character in word:
    if character not in vowel:
        count += 1
print(count)
```

6. Counting the number of occurrences of a character in a String

```
In [ ]: word = "programming"
character = 'g'
count = 0
for i in word:
    if i == character:
        count+=1
print(count)
```

7. Writing FIBONACCI Series

```
In [14]: fib = [0,1]
# Range starts from 0 by default
n=5
for i in range(n):
    fib.append(fib[-1] + fib[-2])

#Converting the list of integers to string
print(', '.join(str(e) for e in fib))
```

0, 1, 1, 2, 3, 5, 8

8. Finding the Maximum Number in a list

```
In [ ]: numberList = [12, 3, 55, 23, 6, 78, 33, 4]
max = numberList[0]
for num in numberList:
    if max < num:
        max = num
print(max)
```

9. Finding the Minimum Number in a List

```
In [ ]: numberList = [12, 3, 55, 23, 6, 78, 33, 4]
min = numberList[0]
for num in numberList:
    if min > num:
        min = num
print(min)
```

10. Finding the middle Element in a list

```
In [ ]: numList = [12, 3, 55, 23, 6, 78, 33, 5]
midElement = int((len(numList)/2))
print(numList[midElement])
```

11. Converting a list into a string

```
In [ ]: list = ["P", "Y", "T", "H", "O", "N"]
string = "".join(list)

print(string)
print(type(string))
```

12. Adding Two List Elements Together

```
In [ ]: lst1 = [1,2,3]
lst2 = [4,5,6]

res_lst = []
for i in range(0, len(lst1)):
    res_lst.append(lst1[i] + lst2[i])
print(res_lst)
```

13. Comparing Two Strings for ANAGRAMS