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In [16]: # 1. Find the number of unique numbers in your phone number and store it in one
num=[]
nm1='2132486730'
for i in nm1:
    if i not in num:
        num.append(i)
num
```

Out[16]: ['2', '1', '3', '4', '8', '6', '7', '0']

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In [14]: # 2. String=" Hello world" reverse the given string.
sum2='Hello world'
i1=sum2[::-1]
i1
```

Out[14]: 'dlrow olleH'

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In [36]: # 3. S=" ASjhdbgjhdBFYYJGJYTFJHGghdbhj%%6teyt894yt83yt87yt87ye". find the unique
sim=''
S="ASjhdbgjhdBFYYJGJYTFJHGghdbhj%%6teyt894yt83yt87yt87ye"
for i in S:
    # print(i)

    if i not in sim:
        sim=sim+i

m=len(sim)
print('The total number of unique values in the string is',m )
```

The total number of unique values in the string is 23

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In [42]: # 4. Get the prime numbers from 1 to 100 and store it in list
prime=[]
for i in range(0,101):
    if i%2==1:
        prime.append(i)
print('The prime number values are as follows', prime,end = ' ')
```

The prime number values are as follows [1, 3, 5, 7, 9, 11, 13, 15, 17, 19, 21, 23, 25, 27, 29, 31, 33, 35, 37, 39, 41, 43, 45, 47, 49, 51, 53, 55, 57, 59, 61, 63, 65, 67, 69, 71, 73, 75, 77, 79, 81, 83, 85, 87, 89, 91, 93, 95, 97, 99]

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In [20]: # 5. Create the file and append your name in the file
path = r'C:\Users\aramaiah.ASUAD\Naresh_IT\MyDataScience\Mock Tests\Aishwarya.t
file=open(path,mode='w')
print(file.write('Aishwarya Ramaiah Kumar'))
```

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In [44]: # 6. Create the dictionary and get the values and keys in thar dictionary
dic={'Apple':3,"Banana":4,'Grapes':5,'mosambi':45}
keys=dic.keys()
values=dic.values()
print('keys',keys)
print('values',values)
```

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keys dict_keys(['Apple', 'Banana', 'Grapes', 'mosambi'])
values dict_values([3, 4, 5, 45])
```

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In [ ]: # 7. Explain the list and tuple with one basic program. Explain the difference
List is a collection of elements, it is mutable , it ois representaed by square
a=[1,2,3,4,5,6,7,8]
Tuple is a collection of elements, it is immuatble,it is represented by round b
a=(1,2,3,4,5,6,7,5)
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In [ ]: # 8. Difference between mutable and immutable.
mutable: values can be changed during the span of exceution of the program
immutable: values cannot be changed during the span of execution of the program
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In [ ]:
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