1. Write a python program to create a function that takes a list and returns a new list with the original list's unique el ements.

```
def list1(n):
    a=set(n)
    print("unique elements in list \n",list(a))
n=[2,3,4,5,2,3,4,6,7]
list1(n)
```

2. Write a python program to create a function that takes a number as a parameter and checks if the number is prime or not.

```
def prime(n):
    for x in range(2,n):
        if n%x==0:
            break
    if n==x+1:
        print("prime")
    else:
        print("not prime")
n=int(input("enter the elements \n"))
prime(n)
```

3. Write a python program to create a function that prints the even numbers from a given list.

```
Sample List: [1, 2, 3, 4, 5, 6, 7, 8, 9]
def even_number(sample_list):
```

```
for x in sample_list:
    if x%2==0:
        print(x)
    else:
        continue

sample_list=[1, 2, 3, 4, 5, 6, 7, 8, 9]
```

even number(sample list)

4. Write a python program to create a function that checks whether a passed string is palindrome or not.

```
def palindrome(s):
    a=s[::-1]
    if s==a:
        print("string is palindrome")
    else:
        print("string is not palindrome")
s=input("enter the string\n")
```

```
palindrome(s)
5. Write a python program to create a function to find the Min of three numbers.
def min num(*n3):
  z=\min(n3)
  print("minimum num in three num is ",z)
min num(4,5,6)
6. Write a python program to create a function and print a list where the values are square of numbers between 1 and
def sq num(n1,n2):
  11=[]
  for x in range(n1,n2+1):
    11.append(x**2)
  print(11)
sq num(1,30)
7. Write a python program to access a function inside a function.
def add_num(n1,n2):
  def add(n1,n2):
    return n1+n2
  res=add(n1,n2)
  return res
print("enter two value")
n1,n2=int(input()),int(input())
a=add num(n1,n2)
print(a)
8. Write a python program to create a function that accepts a string and calculate the number of upper case letters an
d lower case letters.
def UL letter(s1):
  n1=0
  n2 = 0
  for x in s1:
    if x.islower():
       n1+=1
    elif x.isupper():
       n2+=1
  print("lower case leeter is ",n1)
  print("upper case letter is ",n2)
s1=input("enter the string")
UL letter(s1)
```

9. Write a python program to create a function to check whether a string is a pangram or not. def pangram(s): alpha = "abcdefghijklmnopqrstuvwxyz" for char in alpha: if char not in s.lower(): return False return True s = 'the quick brown fox jumps over the lazy dog' if(pangram(s) == True): print("str is pangram") else: print("str is not pangram ") 10. Write a python program to create a function to check whether a string is an anagram or not. def anagram(s1,s2): for char in s2: if char not in s1.lower(): return False return True s1,s2='abcd','bcad'

if(anagram(s1,s2) == True):
 print("str is anagram ")

print("str is not anagram ")

else: