**Python Assignment**

1.

str =input("enter the string: ")

ls = str.split('-')

ls.sort()

str = '-'.join(ls)

print(str)

2.

def sqr(x:int):

x=x\*\*2

return x

def func(y):

print (y)

return(sqr(y))

print(func(2))

3.

str =input("enter the string: ")

str =str[::-1]

print(str)

4.

def firstDuplicate(ls):

lsSet = set()

for item in range(len(ls)):

if ls[item] in lsSet:

return ls[item]

else:

lsSet.add(ls[item])

return -1

ls =[1, 2, 3, 4, 4, 5]

print(firstDuplicate(ls))

5.

def occurance(a,ls):

count=0

for item in ls:

if (item==a) :

count+=1

return a

value = 5

ls-2 =[1,2,3,4,4,5]

occurrence(a,ls)

6.

def vol(a):

pie = 3.141

volume=(4.0/3.0)\*pie\*(a\*a\*a)

return volume

7.

def check(a,l,h):

if a in range(l,h+1):

print("Number is in range")

else:

print("Number not in range")

8.

def check(s1):

u=0

l=0

for alp in s1:

if alp.isupper():

u+=1

else:

l+=1

return ("No of upper case characters: {},\nNo. of lower case characters: {}".format(u,l))

9.

def uniq(ls):

new\_ls=[]

for item in ls:

if item not in new\_ls:

new\_ls.append(item)

return new\_ls

10.

def mul(ls):

ans=1

for item in ls:

ans\*=item

return ans

11.

def pal(st):

if st==st[::-1]:

return ("Given string is a palindrome")

return("Given string is not a palindrome")

12.

def ispan(st):

alp = "abcdefghijklmnopqrstuvwxyz"

for item in alp:

if item not in st.lower():

return False

return True

13.

print("Twinkle,\n twinkle, little star,\n\t How I\n\t wonder what you are!\n\t\t Up above\n\t\t the world so high,\n\t\t\t Like\n\t\t a diamond in the sky.\n Twinkle,\n twinkle, little star,\n\t How I\n wonder what you are")

14.

def exten(s):

ls = s.split('.')

return ls[-1]

15.

x = int(input("Input the number: "))

n1 = int( "%s" % a )

n2 = int( "%s%s" % (a,a) )

n3 = int( "%s%s%s" % (a,a,a) )

print (n1+n2+n3)

16.

def check(a,ls):

if a in ls:

print("Item present")

else:

print("Item not present")

17.

def even(ls):

new\_ls =[]

for item in ls:

if item == 237:

break

elif item%2 ==0:

new\_ls.append(item)

print (new\_ls)

18.

def check(a,b):

if(a==b) or ((a+b)==5) or (abs(a-b)==5):

return True

return False

19.

name ="Nitin"

age = "22"

address = "Panchkula,Haryana"

print("Name: {}\nAge:{}\nAddress:{}".format(name,age,address))

20.

def calc(x,y):

print((x+y)\*\*2)

21.

def col(color\_list\_1,color\_list\_2):

ans\_set =set()

for item in color\_list\_1:

if item not in color\_list\_2:

ans\_set.add(item)

print (ans\_set)