Assignment2 (ans):

1.Python function to find max of three numbers

def max\_of\_two( x, y ):

if x > y:

return x

return y

def max\_of\_three( x, y, z ):

return max\_of\_two( x, max\_of\_two( y, z ) )

print(max\_of\_three(3, 6, -5))

Output:6

2.Python program to reverse a string

def string\_reverse(str1):

rstr1 = ''

index = len(str1)

while index > 0:

rstr1 += str1[ index - 1 ]

index = index - 1

return rstr1

print(string\_reverse('3456abcd'))

Output:dbca6543

3.Python function to check whether the number is prime or not

num=11

If num > 1:

for i in range(2,num):

if ( num % i ) == 0 :

print(num, “is not a prime number”)

break

else:

print(num,”is a prime number”)

else:

print(num,is not a prime number”)

Output:11 is a prime number

4.Using try,except,else and finally block to check whether the number is palindrome or not

def isPalindrome (word):

if len(word)<1:

return true

else:

if word [0]== word [-1]:

return isPalindrome(word[1:-1])

else:

return false

def fileInput(filename):

Palindrome=false

fh= open(filename,”r”)

length = input(“Enter length of palindromes:”)

d=int(length)

try:

for line in fh:

for s in str (len(line)):

if isPalindrome (line.strip()):

Palindromes=True

If (Len(line.strip()))==d:

Print(line.strip())

except:

print(“No palindrome found for length entered”)

finally:

fh.close

Output:121 is a palindrome.

5.Python function to find sum of squares of first n natural numbers

def squaresum (n):

sm=0

for i in range (1,n+1):

sm=sm+(i\*i)

return sm

n=4

print(squaresum(n))

Output:30