# eval() function demo program

print(eval('25')) : 25

print(eval('10.8')) : 10.8

print(eval('False')) : false

print(eval('3+4j')) : ( 3+4j ) #complex

print(eval('Hyd')) : Hyd #String

print(eval(" 'Hyd' ")) : ‘error # string

print(eval('3 + 4 \* 5')) : 23 # int

print(eval('[10 , 20 , 15 , 18]')) : [10 , 20,15, 18] : list

print(eval('{10,20,15,18,20,12,18}')) : {10,20,15,18,20,12,18} # dict

print(eval('(10 , 20 , 30)')) : (10 , 20 , 30) # tuple

print(eval("{10 : 'Hyd' , 10 : 'Sec'}")) : {10 : 'Sec'}

print(eval(4 + 5)) : error # int

# Tricky program

# Find outputs (Home work)

print(eval(" 'hyd' ")) : ‘hyd’

hyd = 'Sec'

print(eval('hyd')) : ‘sec’

sec = '25'

print(eval('sec')) : 25

print(eval(sec)) : 25

cyb = 10.8

print(eval('cyb')) : 10.8

print(eval(cyb)) : error

#Tricky program

# Find output (Home work)

print(eval('print("Hyd")')) : “hyd”

# Find outputs (Home work)

print(bool('False')) : treue

print(eval('False')) : false

print(bool('')) false

print(eval(' "" ')) : “ “

print(eval('')) : error

print(eval(' " " ')) :” “

print(eval(' ')) :error

# What is the advantage of eval(input()) ?

x = eval(input('Enter any input : '))

print(type(x)) : <class ‘eval’>

print(x) : nothing will be utill adding value to that x value

# What is a better approach to read string input ?

a = input('Enter any string : ') : a=’kumar’

print(len(a)) : 5

print(a) : ‘kumar’

b = eval(input('Enter any string : ')) : ‘kumar’

print(len(b)) : 5

print(b) : ’kumar’

# sep argument demo program (Home work)

a , b , c = 25 , 10.8 , 'Hyd'

print(a , b , c , sep = ',') # 25 , 10.8 , Hyd

print(a , b , c , sep = '\t') : 25 10.8 'Hyd' # with tab space

print(a , b , c , sep = '---') : 25---10.8---'Hyd'

print(a , b , c , sep = '\n') :

🡪25

10.8

'Hyd'

print(a , b , c) : error

print(a , b , c , separator = ':') : error # are not assigned type

# Find outputs (Home work)

a , b , c = 25 , 10.8 , 'Hyd'

print(a , b , c , end = '---') : 25 10.8 'Hyd'---

print(a , b , c , sep = ',,,') : 25 10.8 'Hyd' ,,,

print(a , b , c , sep = ':::' , end = '\t\t\t') 🡪

25::: 10.8 ::: Hyd

print(a , b , c)

#Find outputs (Home work)

print('Hyd') : ’Hyd’

print() : empty , no ouput will be printed

print('Sec') : ‘sec’

print() : empty output

print('Cyb') : ‘Cyb’

# Find outputs (Home work)

l = [10 , 20 , 30 , 40]

t = (10 , 20 , 30 , 40)

s = {10 , 20 , 30 , 40}

print(l , t , s) :

* [10 , 20 , 30 , 40],( 10 , 20 , 30 , 40),{ 10 , 20 , 30 , 40}

# Find outputs (Home work)

a = 25

b = '%f' %a

print(b) : 25.0

print(type(b)) : <class ‘str’>

x = 10.8

y = '%d' %x

print(y) : 10

print(type(y)) : <class ‘int’>

m = [10 , 20 , 15 , 18]

n = '%s' %m

print(n)

print(type(n)) < class ‘str’>

# Find Outputs (Home work)

a = 10.9274

print('%8.2f' %a) # <3 spaces>10.93

print('%9.1f' %a) : 10.9 # 5 spacs

print('%10.3f' %a): 10.927#4space

print('%.2f' %a) :10.92

print('%.6f' %a) : 10.927400

print('%f' %a) : 10.927400

# Find outputs (Home work)

a = 'Hyd'

print('%7s' %a) # <4 spaces>Hyd

print('%-7s' %a) # Hyd<4 spaces>

print('%2s' %a) # Hyd and ignores smaller width

print('%s' %a) : Hyd

print('%s' , a) : hyd

print('%s' a) :error

print('%s' , %a) : error

print(a)

# Find outputs (Home work)

a = [10 , 20 , 30 , 40]

print('%s' %a) : [10 , 20 , 30 , 40]

print('%s' , a) : %s [10 , 20 , 30 , 40]

print('%s' a) : error

print('%s' , %a) : error

print('%l' %a) : error

print(a) : [10 , 20 , 30 , 40]

#Find outputs (Home work)

a = 25

b = 10.9274

c = 'Hyd'

print('%d %f %s' %(a , b , c)) : 25 10.927400 ‘Hyd’

print('%i %g %s' %(a , b , c)) : 25 10.9274 ‘Hyd’

print('%s %s %s' %(a , b , c)) : 25 10.9274 ‘Hyd’

print('%d %g %s' , a , b , c) : '%d %g %s' 25 10.9274 ‘Hyd’

print('%d %g %s' a , b , c) : error

print('%d %g %s' , %(a , b , c)) :error

print('%d %g %s' %a%b%c) : error

print('%d' %a , '%f' %b  ,  '%s'   %c) : 25 10.927400 s‘Hyd’