# float object demo program (Home work)

a = 10.8

print(a) # value of a is 10.8

print(type(a)) # float class

print(id(a)) # 1001

b = 25.

print(b) # value of b is 25

print(type(b)) # int class

c = .689

print(c) # 689

d = 3.4E2

print(d) # 340

print(type(d)) # Mantissa Exponent power Class

e = 9.62e-2

print(e) #0.0962

print(9.8.2) # Not Valid

# complex object demo program

a = 3 + 4j

print(a) # 3+4j

print(type(a)) # Complex object

print(id(a)) # 999

print(a . real) # 3

print(a . imag) # 4

print(type(a . real)) # int

print(type(a . imag)) # int

# Find outputs (Home work)

a = 6j

print(a) # 6j

print(type(a)) #class complex

print(a.real) #0

print(a.imag) #6

print(5 + j6) #invalid

print(3 + 4i) #invalid

print(4+j) #j is not defined

print(4 + 1j) # 4+1j

print(4 + 0j) # 4+0j

# bool object demo program (Home work)

a = True

print(a) #True

print(type(a)) #class bool

print(id(a)) #999

b = False

print(b) #False

print(type(b)) #class bool

print(True + True) #1 +1 =2

print(True + False) #1+0=1

print(False + True) #0+1=1

print(False + False) # 0+0 =0

print(True + True + True) #1+1+1=3

print(25 + 10.8 + True)#36.8

print(True > False) #True

print(True) #True

print(False) #False

print(true) #invalid

print(false) #invalid

# Find outputs (Home work)

a = 0O6247

print(a) #3239

print(type(a)) # class int

print(id(a)) #999

b = 0o6247

print(id(b)) #999

print(b) #3239

c = 3239

print(c) #3239

print(id(c)) #999

print(0o9248) # invalid

# Find outputs (Home work)

a = 0XA7B9

print(a) #42937

print(type(a)) #class int

b = 0xBEEF

print(b) #48879

print(A7B9) # not defined

print('A7B9') # A7B9

print(0XBEER)# invalid

print(0XHYD) #invalid

print(0xA7G9B) #invalid

# Find outputs (Home work)

a = 9248

print(a) #9248

print(type(a)) # class int