INFORMATICS PRACTICES

CH 4 DATA HANDLING - WS -1

Predict the Output

1. Given 3 Boolean variables a,b,c: a=False , b=True , c=False.

a)	b and c	
b)	b or c	
c)	not a and b	
d)	(a and b) or not c	
e)	not b and not (a or c)	
f)	not ((not b or not a) and c) or a	

2. int('a') produces error.Why?

Ans:

3. int('a') produces error but following expression having int('a') in it, does not return error.Why?
len('a')+2 or int('a')

Ans:

4. Evaluate and justify

a)	False and None	
b)	0 and None	
c)	True and None	
d)	None and None	
e)	0 or None and "or"	
f)	1 or None and 'a' or 'b'	
g)	False and 23	
h)	23 and False	
i)	not(1==1 and 0!=1)	
j)	"abc"=="Abc"and not(2==3 or 3==4)	"

5. What is the result produced by

   i) bool(0)

   ii) bool(str(0))

Ans:	
6.	Following code has an expression with all integer values. Why is the result in floating point form? a,b,c=2,3,6 d=a+b*c/b print(d)
Ans:	
7.	Following expression does not report an error if it has a sub-expression with 'divide by zero' problem: 3 or 10/0 What changes can you make to above expression so that python reports this error?
Ans:	
8.	What will following code print ?

a)	a=va=3 b=va=3 print(a,b)	
b)	a=3 b=3.0 print(a==b) print(a is b)	
c)	a,b,c=1,1,2 d=a+b e=1.0 f=1.0 g=2.0 h=e+f print(c == d) print(c is d) print(g == h) print(g is h)	
d)	a=5-4-3 b=3**2**3 print(a) print(b)	

	e)	a,b,c=0.1 d=0.3 e=a+b+c=d f=a+b+c==d print(e) print(f)	
	f)	a=12 b=7.4 c=1 a-=b print(a,b) a*=2+c print(a) b+=a*c print(b)	
	g)	x,y=4,8 z=x/y*y print(z)	
	h)	a,b=bool(0),bool(0.0) c,d=str(0),str(0.0) print(len(a),len(b)) print(len(c),len(d))	
	i)	a=True b=0<5 print(a==b) print(a is b) c=str(a) d=str(b) print(c==d) print(c is d) e=input(“Enter : ”) print(c == e) print(c is e)	

		j)	A=3+5/8 B=int(3+5/8) C= 3+ float(5/8) D=3+float(5)/8 E=3+5.0/8 F=int(3+5/8.0) print(A,B,C,D,E,F)	
		k)	A=5 B=-3 C=25 D=-10 A+B+C>A+C-B*D str(A+B+C>A+C-B*D)==’true’ len(str(A+B+C>A+C-B*D))==len(str(bool(1)))	