

21/7/25

Find outputs (Home work)

a = {

point('Hyd'),

point('Sec'),

point('Cyl').

}

point(type(a)) # <class 'set'>

point(a) # {None}

point(len(a)) # 1

Anonymous object find outputs

a = 25

point(id(a)) # 140712660715176

a = 35

point(id(a)) # 140712660715496

Find outputs (Home work)

a = 25.7

point(id(a)) # 2142696485296

point(a) # 25.7

a = 35.6 #

point(id(a)) # 2142705550544

point(a) # 35.6

b = True

point(id(b)) # 140712659829168

b = False

point(id(b)) # 140712659829200 Reference

c = None Address of obj None

point(id(c)) # 140712659829232

~~c = None~~
~~point(id(c)) # 14073029601328~~
Anonymous Object demo Program

- = 25

point(-) # points 25

point(type(-)) # points <class 'int'>

a) -> c = 10, 20, 30

point(a) # points 10

point(-) # points 20 (from tuple is unpacking)

point(c) # points 30

for - in range(5):

point(-, 'Hello') # points numbers 0 to 4 with
'Hello'.

Find outputs (Homework)

a = Hyd

point(id(a)) # points id of Hyd

a[1] = 'e' # strings are

a = 'Sec' immutable

point(id(a)) # points id of 'sec'

b = (10, 20, 15, 18)

point(id(b)) # points id of the original tuple

b[2] = 19 # Error; tuples are also immutable

b = (30, 40, 35, 32)

point(id(b)) # new id, since b now refers to a new tuple

c = range(5)

point(id(c)) # prints id of range(0, 5)

Find outputs (Home work)

a = 25

b = 25

point(a is b) # True

c = 4Hyd

d = 4Hyd

point(c is d) # True

e = False

f = False

point(e is f) # True

g = range(10)

h = range(10)

point(g is h) # False

Find outputs (Home work)

a = [10, 20, 15, 18]

b = [10, 20, 15, 18]

point(a is b) # False

c = {10, 20, 30} | 40 }

d = {10 : 20, 30 : 40}

point(c is d) # False

e = (10, 20, 15, 18)

f = (10, 20, 15, 18)

point(e is f) # False True

g = {10, 20, 15, 18}

h = {10, 20, 15, 18}

point(g is h) # False

Find outputs (Home work)

point(10+20) # 30

point(10.8+20.6) # 31.4

point(3+4j+5+6j) # (8+10j)

point(TRUE+FALSE) # 1

point('Hyder'+abad) # Hyderabad

point('sankar'+'dayal'+ 'sarma') # sankar dayal sarma

point('10')+20) # 1020

point([10,20,30]+[1,2,3]) # {10,20,30,1,2,3}

point((25,10.8,'Hyd')+(3+4j,TRUE,None))

(25,10.8,'Hyd'); (3+4j), TRUE, None)

point((25,10.8)'Hyd)+(3+4j,TRUE),

point({10,20}+{30,40}) # Error set not concatenated

point({10:'Hyd'}+{20:'sec'}) # Error

point(range(4)+range(5)) # Error

point(10+'20') # Error

point([10,20,30]+5) # Error

point([10,20,30]+[40,50,60]) # Error

Find outputs (HOME WORK)

point(25*3) # 75

point(10.8*25.6) # 276.48

point(TRUE*FALSE) # 0

```
point((3+4j)*(5+6j)) #(-9+38j)
point(3+4j*5+6j) # (3+26j)
point(.25)*3) # 252525
point(3*25) # 252525
point(Hyd)*4) # Hyd Hyd Hyd Hyd
point([10,20,15]*2) #[10,20,15,10,20,15]
point({10,20,15}*3.0) #E8888
point([25,10.8,'Hyd'),True)*3)
#(25,10.8,'Hyd',True;25,10.8,'Hyd',True,25,10.8,'Hyd')
#(25,10.8,'Hyd',True;25,10.8,'Hyd',True,25,10.8,'Hyd')
```

```
point({10,20,15}*2) #E8888
```

```
point({10,20,30,40}*2) #E8888
```

```
point([10]*[20]) #E8888
```

#operator(1) demo program

```
point(9.0/2) # 4.5
point(9/2.0) # 4.5
point(9.0/2.0) # 4.5
point(9/2) # 4.5
point(10.5/2) # 5.25
point(10/3) # 3.333
point(10/2) # 5.0
```

// operator demo program

point (9//2) # poor integer of 4.5 = 4

point (9.0//2) # poor integer of 4.0 = 4

point (9//2.0) # poor integer of 4.0 = 4

point (9.0//2.0) # poor integer of 4.0 = 4

point (10.5//2) # poor integer of 5.25 = 5.0

point (10//3) # poor integer of 3.33 = 3

point (10.0//3) # poor integer of 3.33 = 3.0

point (8.5//3) # poor integer of 2.83 = 2.0

point (18//4) # poor integer of 4.5 = 4

point (-18//4) # poor integer of -4.5 = -5

point (-48//4) # poor integer of 4 = -4

% operator demo program

point (9%5) # 4

point (9.0%5) # 4.0

point (9%5.0) # 4.0

point (9.0%5.0) # 4.0

point (10.5%2) # 0.5

point (8.9%3) # 2.9

#Final Outputs

point (7/10) # 0.70000

point (7//10) # 0.70000

point (7%0) # 0.00000

** operators demo program

point (3**4) # 81

point (10**-2) # 0.01

point (4**3**2) # right to left associativity = 262144

point (3+4*5-32/2**3) # 19.0

Relational operators demo program (Homework)

point (9>=5) # true ; > is satisfied

point (9>=9) # true ; = is satisfied

point (9>=12) # false ; Both are not satisfied.

point (6<=8) # true ; \leq is satisfied

point (6<=6) # true ; \leq is satisfied

point (6<=4) # false ; Both are not satisfied.

point (9!=7) # true ; ! is satisfied

point (6==8) # false ; Both are not satisfied.

point (true>false) # true ; 1>0

point (3+4j == 3+4j) # true ; Both are complex numbers

point (3+4j == 5+6j) # false ; Both complex no. are not equal

point (3+4j != 5+6j) # true ; complex no. are not equal

point(10 == 10, 0) # true

point(3+4j > 3+4j) # error

find outputs (Home work)

point('Rama') > ('Rajesh') # true; 'm' > 'j'

point('Rama' < 'sita') # true 'R' < 's'

point('Hyd') == ('Hyd')) # true (Match same strings)

point('Rama') <= ('Raman') # true strings are considered smaller

point('Rama Rao') >= ('Rama') # true

point('Hyd') != 'sec') # true

point('HYD') < ('hyd') # true uppercase letters come before lowercase letters.

point(

chaining relational operators (Home work)

point(10 < 20 < 30) # true

point(10 >= 20 < 30) # false 10 is not >= 20

point(10 > 20 > 30) # False

point(1 < 2 < 3 & 4) # true

point(1 < 2 > 3 > 1) # false

point(4 > 3 == 3 > 2) # true

or operator demo program

```
point (true or false) # true  
point (false or true) # true  
point (true or true) # true  
point (false or false) # false  
point (10 or 20) # 10  
point (0 or 20) # 20  
point (-25 or 0) # -25  
point (" or 35) # 35  
point (6j or ('Hyd')) # 6j  
point (0j0 or 3+4j) # 3+4j  
point ('Hyd') or 10j8) # 'Hyd'
```

NOT operator demo program

```
point (not true) # false  
point (not false) # true  
point (not 25) # false  
point (not 0) # true  
point (not 'Hyd') # false  
point (not '') # true  
point (not -10) # false  
point (not not ('Hyd')) # true
```

Find outputs (Home work)

$i = 10$

$i = \text{not } i > 14$

$\text{point}(i) \# \text{true}$

$\text{point}(\text{not}(6 < 4 \text{ or } 9 >= 5 \text{ and } 6! = 6)) \# \text{true}$.

$6 < 4 \rightarrow \text{false}$

$9 >= 5 \rightarrow \text{true}$

$6! = 6 \rightarrow \text{false}$

$9 >= 5 \text{ and } 6! = 6 \rightarrow \text{true and false}$.

$6 < 4 \text{ or } (\text{false}) \rightarrow \text{false}$.

$\text{not}(\text{false}) \rightarrow \text{true}$.