

29/7/25

### # Find outputs (Home work)

$m=4$

match

case 1:

point('one')

case 2:

point('two')

case 3:

point('three')

point('Bye')

# Bye

### # Identify error

$i=2$

match i:

case 1:

point('one')

case -:

point('none of the above')

case 2:

point('two') # This will cause a syntax error

point('Bye')

### # Find outputs (Home work)

$m=1$

match m:

case 1:

point('Hyd') # Hyd

case 1;  
print('sec')

case 2;  
print('cyc')

print('cyc') # Bye

# Find outputs (Home work)

m=2

match m;

case 1;

print('One')

case -;

print('Hello') # Hello

case -;

print('Bye')

print('End') # End

# Find outputs (Home work)

ch = 'B'

match ch;

case 'A' ;

print('APPLE')

case 'B' ;

print('BOOK') # BOOK

case 'C' ;

print('cafe')

case -;

print('Name of the store!')

print('Bye') # Bye

# find outputs

while True:

print('Hello') # Hello endlessly.

print('Bye') → Not executed

Infinite loop → always condition is true

# find outputs

while False:

print('Hello')

print('Bye') # Bye

# find outputs (HOME WORK)

How to print each element of list [10, 20, 15, 18]  
with for loop print()

~~for i in [10, 20, 15, 18]:~~

print(i)

OUTPUT → 10

20

15

18

How to print each character of string 'Hyd' with  
for loop print()

for ch in 'Hyd':

print(ch)

output:-  
H  
y  
d

HOW TO PRINT EACH ELEMENT OF range(5) WITH FOR LOOP.

for i in range(5):  
 print(i)

output:-  
0  
1  
2  
3  
4

# FIND OUTPUTS (HOME WORK)

for x in [10, 20, 30, 40, 50]: key():

print(x)

print(c)

for x in [10, 20, 30, 40, 50]: key():

print(x)

output:- 10

30

50

for x in [10, 20, 30, 40, 50]: values():

print(x)

outputs:- 20

40

60

for x in [10, 20, 30, 40, 50, 60]: items():

point(x)

outputs: (10, 20)

(30, 40)

(50, 60)

for x in [10, 20, 30, 40, 50, 60]: keys method

point(x)

outputs: 10

30

50

# Find outputs (Home work)

a = [10, 20, 30, 40, 50, 60]

for x, y in a: items()

point(x, y, sep='...')

# 10..., 20

30..., 40

50..., 60

for x, y in a:

point(x, y)

# Error

for x, y in [10, 20, 30, 40, 50, 60]:

point(x, y, sep='...')

key methods only one variable

# E8808

# Identify ~~error~~

for x in 123:

point(x) # type ~~error~~ int object is not iterable

# find outputs (HomeWork)

for x in ():

point(x) # NO elements to iterate

for x in []:

point(x) # NO elements to iterate

for x in {}:

point(x) # NO keys to iterate

for x in set:

point(x) # NO elements to iterate

for x in "":

point(x) # NO characters to iterate

for x in range(10,10):

point(x) # Nothing to iterate

for x in range():

point(x) # E8808

for x in (25):

point(x) # E8808

## # Nested loop demo program

```

for i in range(1,4): # outer loop: i = 1, 2, 3
    for j in range(1,5): # inner loop: j = 1, 2, 3, 4
        print(i,j) # print current i and j
    print('Hello') # print once after inner loop ends
print('Bye') # Bye

```

## # How to print each element and the corresponding index based for loop point (for each loop)

```

a = [25, 10.8, 'Hyd', True]
print('Indexed based for loop')
for i in range(len(a)): # 0, 1, 2, 3
    print(i, a[i])

```

HOW TO PRINT EACH ELEMENT AND THE CORRESPONDING INDEX WITH FOR EACH LOOP (DO NOT USE len variable)

Point('FOR EACH LOOP')

for x in a:

print(a.index(x), x) # 0 25  
1 10.8  
2 Hyd  
3 True

HOW TO POINT LIST ELEMENTS FROM INDEXES 2 & 4 WITHOUT SLICE

```

a = [25, 10.8, 'Hyd', True, 'wave', 'sec']
print('Indexed for loop')

```

`a = [25, 10, 8, 'Hyd', True, 3+4j, None, 'xyz']`

How to print elements from indices 2 to 4 of list 'a' with indexing based for loop.

point('Indexed for loop')

for i in range(2, 5):

    point(a[i])

How to print elements from indices 2 to 4 of

list 'a' with for each loop without using enumerate and slice → Not possible

point('for each loop')

count = 0

for x in a:

    if 2 <= count <= 4:

        point(x)

    count += 1

Tricky program    Find outputs

`a = [10, 20, 15, 18]`

for i in range(len(a)):

    a[i] += 1

point('a', a) # a = [11, 21, 16]