



CS & IT ENGINEERING



Python For Data Science

Basics of Python

DPP- 02

Discussion Notes



By- Satya sir

[MCQ]

#Q. The output of below Python Code Segment is _____

a,b=1,3

for i in range(a,b):

for j in range(b,a,-1):

print(i+j, end=' ')

	j=3	j=2
i=1	Print 4	Print 3
i=2	Print 5	Print 4

o/p: 4, 3, 5, 4

A 4, 3, 5

B 4, 5, 3, 4

C 4, 3, 5, 4

D 4, 5, 3

[NAT]

#Q. The final value of result is 21

result=1

for x in range(result,4,2):

 result+=1

 for y in range(result):

 result+=2

print(result) ~~21~~

x=1

result=2

result=4

result=6

y=0, y=1, y=2, 3, 4, 5, 6

x=3

result=7

result=7+14=21

[MCQ]

#Q. What is printed by below Python Code Segment?

```
for i in range(5,2,-1):
    i=10
    for j in range(1,3):
        i=i+j
    print(i)
```

$i=5$	$i=10$	$j=1$ $i=11$	$j=2$ $i=13$
<hr/>			
$i=4$	$i=10$	$j=1$ $i=11$	$j=2$ $i=13$
<hr/>			
$i=3$		$i=11$	$i=13$

A

12

C

15

B

13

D

16

[NAT]

#Q. What will be final ans value from the below code?

a=1

b=4

ans=1

while a<4:

ans=ans+a

while b>1:

if b<=2:

break

ans=ans+b+a

b=b-1

a=a+2

print(ans) #14

a=1
1<4 True
ans=1+1=2
4>1 True
ans=2+4+1=7
b=3

3>1 True
ans=7+3+1=11
b=2

2>1 True
2<=2 True
break

a=3 3<4 True
ans=11+3=14
Inner loop: 2>1 True
2<=2 True break
a=5 5<4 False

[MCQ]

#Q. The total number of times print statement is executed is _____

```
for i in range(7,8):  
    for j in range(6,7):  
        print(i*j)
```

i=7, j=6
#only 1 time

A ✓ 1

C 3

B 2

D 4

[MCQ]

#Q. The output of below code is _____

```
i=print('GATE',end="")  
while i:  
    print(i,end=',')  
    i=i-1
```

None (handwritten) *o/p: GATE* (handwritten)
while None: => Never Executed (handwritten)



Error



GATE 4,3,2,1



GATE 4,3,2



GATE

[MCQ]

#Q. What will be the output of below Python Code Segment?

```
for i in range(1,10,2):
```

```
    if i%3 ==0:
```

```
        print(i+2,end=' ')
```

```
        continue
```

```
    elif i%5==0: ✓
```

```
        print(i-1,end=' ')
```

```
        break
```

```
    else:
```

```
        print(i+1,end=' ') ✓
```

$i=1$ Print 2

$i=3$ Print 5

$i=5$ Print 4 break.

$i=7$
 $i=9$ } Not executed

A 2, 5

B 1, 4, 3

C ✓ 2, 5, 4

D 2, 5

[NAT]

#Q. The value of 'i' printed by below code is _____--

i=5

for j in range(5):

 match j:

 case 2: i=i+2

 case 4: i=i-1

 case 5: i=i+1

 case 3: i=i-2

 case 1: i=i+i

print(i) $\neq 9$

j=0

i=5

j=1

i = 5 + 5 = 10

j=2

i = 10 + 2 = 12

j=3

i = 12 - 2 = 10

j=4

i = 10 - 1 = 9



THANK - YOU