

Quiz-1 (IP)

Q1. Predict the output of following code:-

(3min)

```
a=5
def func(x):
    x++
    print(x)
    ++x
    print(x)
func(a)
```

a)6 7

b)5 6

c)error

d)6 6

Answer : c)

Q2. The output of this code snippet will have how many lines?

(3 min)

```
def add(x, y):
    return x+y

def mult(x, y):
    print(x*y)

add(1,2)
print(add(2,3))
mult(3,4)
print(mult(4,5))
```

a) 0

b) 5

c) 2

d) 4

Answer : d)

Q3. Given 2 numbers x and y, print the multiplication table of x from 2 to y (3 min)

For example, if x=3,y=7, output will be

6
9
12
15
18
21

Complete this code snippet

```
for( i in range( __, __ )):  
    print(x*i)
```

Answer :

```
for i in range(2,y+1):  
    print(x*i)
```

Q4. (3 mins)

Given the program below, what value of i shall be printed by print() statement at the end of while loop?

```
el i = 0  
j = 7  
j  
while j>=0:  
    if j%2 == 0:  
        i += 3  
    elif j%3 == 0:  
        i -= 2  
    else:  
        i *= 2  
    j -=1  
print(i)
```

Answer : 23

Q5. Complete this code for reversing the digits of a number in python:

Reversing a digit means if the number = 1234, the code should print 4321. (3 mins)

```

num=1234
ans=0
while(num>____):
    a = num%10
    ans= ans*10 + a
    num= num//____.
print(ans)

```

What should be filled in the blanks above? _____, _____
 Answer : 0,10

Q6. What shall be the output of the following code: (3 min)

```

i = 3
while i > 0:
    print(i)
    i -= 1
    print(i-1)

```

- a) 3 1 1 -1
- b) 3 1 1
- c) 3 1 2 0 1 -1
- d) 3 1 2 0 1

Ans. c) 3 1 2 0 1 -1

Q7. What shall be the output of the following code: (3 min)

```

count = 0
while(True):
    if count % 3 == 0:
        print(count, end = " ")
    else:
        print(count, end = " ")
    if(count > 9):
        break;
    count += 1

```

- a) The loop will run infinitely
- b) 0 1 2 3 4 5 6 7 8 9 10
- c) 0 3 6 9

d) 0 1 2 3 4 5 6 7 8 9

Ans. b) 0 1 2 3 4 5 6 7 8 9 10

Q8. What is the output of the following code?

(3 min)

```
1  def yes(x):
2      r = range(2, x)
3      for i in r:
4          if x%i == 0:
5              return False
6      return True
7
8  def no(x):
9      r = range(2, x)
10     for i in r:
11         if yes(i):
12             print(i, end=',')
13
14  no(23)
15
```

Ans: 2,3,5,7,11,13,17,19,