You might not be familiar with the snapshots of the solutions results. It's written in Python and executed using Google Colab. Python codes are very similar to pseudocodes, so the best way to verify answer of pseudocodes is by writing the code using Python:

Q1)

```
What will be the output of the following pseudocode of fun for w = 40 and x = 47

1. void fun( Integer w, Integer x)
2. Integer y
3. Set y=0
4. if (x mod w EQUALS 0 || w mod x EQUALS 0)
5. y = y + 1
6. Else
7. y = y + 10
8. End if
9. Print y
10. End function fun()

[Note: mod finds the remainder after the division of one number by another. For example, the expression "5 mod 2" would evaluate to 1 because 5 divided by 2 leaves a quotient of 2 and a remainder of 1

|| Logical OR - The logical OR operator (||) returns the Boolean value TRUE(or 1) if either or both operands is TRUE and returns FALSE(or 0) otherwise]

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11. Logical OR - The logical OR operator (||) returns the Boolean value TRUE(or 1) if either or both operands is TRUE and returns FALSE(or 0) otherwise]

12. Description of the following pseudocode of the print of
```

#### Solution:

```
[ ] def fun(w,x):
    y=0
    if((x%w==0) or (w%x)==0):
        y=y+1
    else:
        y=y+10
    print(y)
    print(fun(40,4))
```

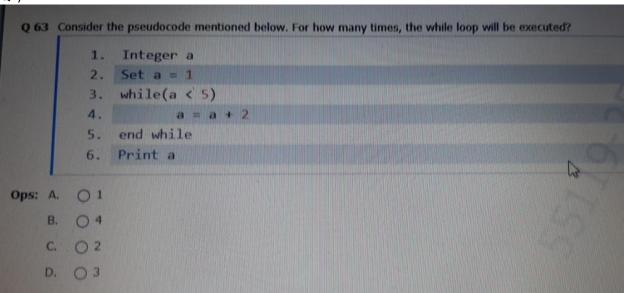
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Q2)



#### Solution:

When while loop is executed 1<sup>st</sup> time, a is incremented to 3, next time again it enters loop and a is incremented to 5. Next time, while loop is not entered. Hence while loop is executed twice.

Q3)

```
| Integer funn(Integer a, Integer b)
| Continue | Integer funn(Integer a, Inte
```

#### Solution:

```
if(a and b and (a+b)>0 ):
    return a + fun(a-2,b-2)+b
    return a ^ b
    res = fun(8,8)
    print(res)
```

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Q4)

```
Integer a, b

Set a = 3, b = 3

a = b

4. if(1^1)

5. a = 1

6. Else

7. b = 2

8. End if

9. Print a + b

[Note: ^ is the bitwise exclusive OR operator that compares each vit of its first operand to the corresponding bit of its second operand. If one bit is 0 and the other bit is 1, the corresponding result bit is set to 1. Otherwise, the corresponding result bit is set to 0

If(x) gets executed if the value inside if(), i.e., x is not zero]

8. 0 1

8. 0 1

8. 0 5

9. 0 6
```

#### Solution:

```
a=3
b=3
if(1^1):
    a=1
else:
    b=2
print(a+b)
```

C→ 5

Q5)

```
r funn(Integer a, Integer b)
                      for (each c from 2 to 4 )
                               if(5 mod 3 > b)
                              End if
                         End if
          11.
         12.
                    End for
                    return a + b
         14. End function funn()
   [Note-mod finds the remainder after the division of one number by another. For example, the expression "5 mod 2" would evaluate to 1 because 5 divided by
   2 leaves a quotient of 2 and a remainder of 1.]
s: A. O 23
 B. O-2
 C. 06
D. 08
```

Solution: Option wrongly given as -2. Should be 2 as executed by Python program below.

```
def fun(a,b):
    for c in range(2,5):
        if((a%2) < (b%3)):
        a = 4%3
        if(5%3>b):
        a = b
        b = 1
        return(a+b)
    print(fun(7,5))
```

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Q6)

```
1. Integer funn(Integer a, Integer b)
2. if(a > 0)
3. return funn(a - 2, a + b) + funn(a - 3, a + b) + funn(a - 4, a + b)
4. Else
5. a = b
6. b = a
7. return a + b
8. End if
9. End function funn()

ps: A. O 116
B. O 117
C. O 114
D. O 125
```

#### Solution:

```
[ ] def fun(a,b):
    if(a>0):
        return fun(a-2,a+b) + fun(a-3,a+b) + fun(a-4,a+b)
    else:
        a=b
        b=a
        return(a+b)
    print(fun(4,3))
```

116

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Q7)

```
Q 77 What will be the output of the following pseudocode for a = 6, b = 1?
                Integer funn(Integer a, Integer b)
           1.
           2.
                    a = a + a
           3.
                    b = b + b
                    return a + b
           4.
           5.
               End function funn()
                                                    B
        O 23
Ops: A.
     B. O 14
     C.
         O 12
    D. 0 16
```

Solution: a = 6+6 = 12; b = 1+1 = 2. Return 12+2 that is 14. Hence ans is 14.

```
def fun(a,b):
    a=a+a
    b=b+b
    return a+b
    print(fun(6,1))
```

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Q8)

```
Integer a, b, c

2. Set a = 2, b = 4, c = 2

3. if (b - a)

4. b = a ^ b

5. a = c

6. if (b)

7. a = a ^ b

8. End if

9. b = b - 1

10. End if

11. if (c)

12. a = b

13. End if

14. Print a + b + c

[Note ^ is the bitwise exclusive OR operator that compares each bit of its first operand to the corresponding bit of its second operand. If one bit is 0 and the other bit is 1, the corresponding result bit is set to 0.

If (x) gets executed if the value inside if (), i.e., x is not zero]

Ops: A. 0 13

B. 0 12

C. 0 30

D. 0 9
```

```
b=4
c=2
if(b-a):
    b= a ^ b
    a=c
    if(b):
        a = a ^ b
    b=b-1
if(c):
    a=b
print(a+b+c)
```

□ 12

Solution:

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Q9)

```
1. Integer a, b, c

2. Set a = 2, b = 3

3. for (each c from 4 to 6)

4. a = a + b

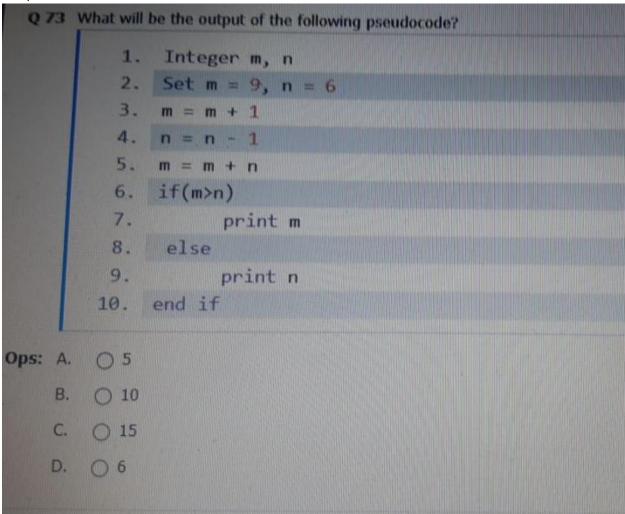
5. if(a > 4)
          a = 0
       6.
            End if
       8. if(a + 2)
       9.
                b = a + 10
      10.
             Jump out of the loop
      11.
     12.
             End if
     13.
             b = a + 1
     14. End for
     15. Print a + b
 [Note: If(x) gets executed if th value inside if(), i.e., x is not zero]
   0 -7
B. 0 23
C. 07
D. O 15
```

#### Solution:

```
b=3
for c in range(4,7):
    a=a+b
    if(a>4):
        a=0
    if(a+2):
        b=a+10
    else:
        break
    b=a+1
    print(a+b)
```

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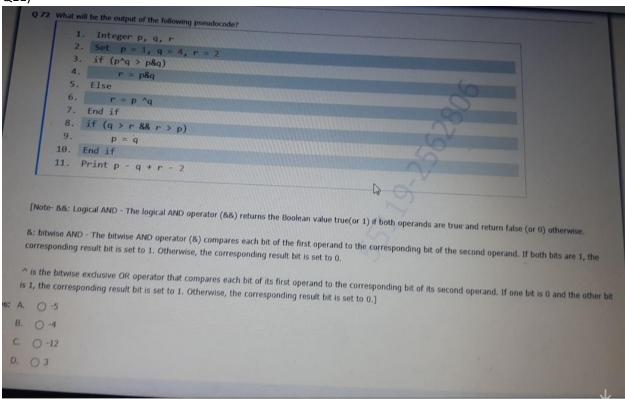
Q10)



Solution:

```
[ ] m=9
    n=6
    m = m+1
    n = n-1
    m = m+n
    if(m>n):
        print(m)
    else:
        print(n)
```

Q11)



Solution:

Solutions by:

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```
[ ] p=1
     q=4
     r=2
     if((p^q)>p&q):
       r= p&q
     else:
       r=p^q
     if(q > r and r > p):
       p=q
     print(p-q+r-2)
```

-5

Q12)

```
pp = ( (pp + pp) ^ ((pp + pp) mod pp) ) ^ (pp + pp)
if(pp && qq)
                    pp = pp \wedge pp

qq = qq + qq
              8. Print pp + qq + rr
     [Note-mod finds the remainder after the division of one number by another. For example, the expression "5 mod 2" would evaluate to 1 because 5 divided by
    &&: Logical AND - The logical AND operator (&&) returns the Boolean value true(or 1) if both operands are true and return false (or 0) otherwise.
    a is the bitwise exclusive OR operator that compares each bit of its first operand to the corresponding bit of its second operand. If one bit is 0 and the other bit
   is 1, the corresponding result bit is set to 1. Otherwise, the corresponding result bit is set to 0.
  If(x) gets executed if the value inside if(), i.e., x is not zero]
 A. 05
 B. O 18
 C. 09
D. 0 10
```

Solution:

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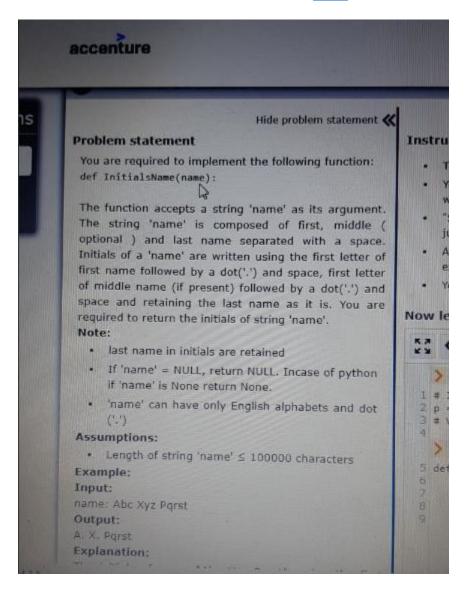
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```
pp=7
qq=7
rr=2
pp = ((pp+pp) ^ ((pp+pp) % pp)) ^ (pp+pp)
if (pp and qq):
    pp = pp ^ pp
    qq = qq + qq
print(pp+qq+rr)
```

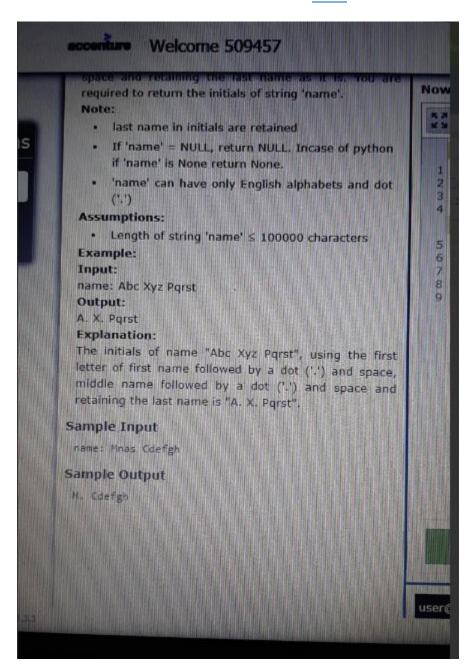
Q13) Coding Round Question 1:

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Solution:

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```
name=input()

def InitialsName(name):
    name=name.split(" ")
    newName = ''
    for i in range(len(name)):
        if(i == (len(name)-1)):
            newName = newName + name[i]
        else:
            newName = newName + name[i][0] + ". "
    return newName
p = InitialsName(name)
print(p)

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```