1. What will be the outputs for the given inputs if they were went through the following pseudocode?

   Integer n1, n2, n3, a

   n1 = a MOD 10

   n2 = a MOD 2

   n3 = a/100

   if (n1 + n2 > n3)

      print "inside 1st if"

   else if (n1 + n2 + n3 > n3 + 3)

      print "inside 2nd if"

   else if ((n1 + n2)/n3 EQUALS 0)

      print "inside 3rd if"

   else

      print "Last if"

   Inputs

   1. a = 987

   2. a = 341

   3. a = 247

   - ○ 1 – inside 2nd if
     2 – inside 3rd if
     3 – last if

   - ○ 1 – last if
     2 – inside 3rd if
     3 – inside 2nd if

   - ◉ 1 – inside 2nd if
     2 – inside 3rd if
     3 – inside 1st if

   - ○ 1 – inside 1st if
     2 – inside 2nd if
     3 – inside 3rd if

2. What will be the output of the following pseudocode?

   Integer a, b, c

   Set a = 9, b = 10, c = 9

   if(a>b OR (c+a) < (b-c))

         b=(12+10)+a

         b=c+b

   else

      c=c+c

   End if

   Print a + b + c

   - ◉ 37
   - ○ 34
   - ○ 41
   - ○ 54

3.  **What will be the output of the following pseudocode?**
    Integer p, q, r
    Set p = 9, q = 2, r = 10
    r = (p+ 8) + r
    if(p < r)
       q= (r + p) + q
    End if
    Print p + q + r

    - ● 74
    - ○ 69
    - ○ 76
    - ○ 82

4.  **What will be the output of the following pseudocode?**
    Integer a = 12, b = 20
    a = a * 2
    b=b+1
    If (((a/3) MOD 2) EQUALS 0)
       if (b<a)
          Print "Inside second if"
           goto L1
       Print "Inside first if"
    Print "Outside if"
    L1: b=15

    - ○ Inside first if
    - ○ Inside second if Outside if
    - ○ Outside if
    - ● Inside second if

5.  **What will be the output of the following pseudocode?**
    Integer a, b, c
    Set a = 9, b = 6, c = 9
    c = (8 + 4) + b
    c = 11 + b
    if (a<b OR (7+8) < (6 - a))
       b = (9 + 4) ^ b
       c = a + c
    End if
    Print a + b + c
    [Note- ^ is the bitwise exclusive OR operator that compares each bit of its first operand to the corresponding bits 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.]

    - ○ 50

○ 37

○ 27

◉ 32

6.  **What will be the output of the following pseudocode?**
    **Integer p, q, r**
    **Set p = 1, q = 5, r = 9**
    **q = q + p**
    **if((q + p) > (r - q))**
    **p = 5 + q**
    **End if**
    **Print p + q + r**

    ○ 31

    ◉ 26

    ○ 24

    ○ 37

7.  **What will be the output of the following pseudocode for a = 5, b = 10?**
    **int c = a - b**
    **for i = 1 to 4**
    **c = c - a**
    **for j = 3 to i**
    **a = a + i**
    **c = c + a + j**
    **end for**
    **end for**
    **Print c**

    ◉ 18

    ○ 393

    ○ 92

    ○ None of the mentioned options

8.  **What will be the output of the following pseudocode?**
    **Integer pp, qq, rr**
    **Set pp = 6, qq = 4, rr = 4**
    **if((5 - pp + qq) > (qq - rr))**
    **rr = (rr + qq) + pp**
    **End if**
    **pp = (7 + 2) + pp**
    **Print pp + qq + rr**

    ○ 36

    ○ 33

    ○ 43

○ 23

9. **What will be the output of the following pseudocode?**
   **Input n = 1234**
   **Integer q, r and rn**
   **Set q=n and rn = 0**
   **while (q > 0)**
      **r = q mod 10**
      **rn = rn + r^3**
      **q= q / 10**
   **End of loop**
   **print rn**

   ○ 110
   ◉ 100
   ○ 36
   ○ 321

10. **What will be the output of the following pseudo code ?**
    **Input f = 6,g = 9 and set sum = 0**
    **Integer n**
    **if (g > f)**
       **for(n=f; n<g; n=n+1)**
          **sum=sum+n**
       **End of loop**
    **else**
       **print Error messages**
    **print sum**

    ○ 19
    ○ 15
    ◉ 21
    ○ 20

11. **What will be the output of the following pseudo code?**
    **Declare variable x, y and i**
    **Set x =0 and y =1**
    **for(int i=1; i<=4; i=i+1)**
       **print x**
       **x = x + y**
       **y = x / y**
    **End of loop**

    ○ 1 0 2 4
    ◉ 0 1 2 4
    ○ 4 2 0 1
    ○ 0 1 2 3

12. **What will be the output of the following algorithm?**
    **Start**
    **Declare a, I and b**
    **for I =0 to 4**
       **Increment a by 1**
       **if I = 3 then**
          **print hello**
          **get out of the loop**
       **End if**
    **End for**
    **print a**

    ○ 2
    ○ 4
    ◉ hello4
    ○ hello

13. **What will be the out put of following pseudocode ?**
    **integer a,b,c**
    **set b=10**
    **for(each a from 1 to 4)**
       **b=b+a**
    **end for**
    **c=b/5**
    **print c**

    ○ 20
    ○ 5
    ◉ 4
    ○ 10

14. **What will be the out put of following pseudocode ?**
    **char[]text='TESTSTRING'**
    **integer a,c**
    **char ch='T'**
    **c=0**
    **for(each a from 0 to length of text)**
       **if (text[a]==ch)**
          **c=c+1**
       **end if**
    **end for**
    **if (c>0)**
       **print(c)**
    **else**
       **print"0"**

    ○ 6

○ 1

◉ 3

○ 10

15. **What will be the output of the following pseudocode?**
**Integer a, b, c, d, e=0**
**Set a=50 , b=3, c=3**
**while(c>0)**
  **d=a mod b**
  **e= e+d + a**
  **c= c - 1**
**End while**
**Print e**

○ 100

○ 153

◉ 156

○ 52

16. **What is the output of the following pseudo-code ?**
**input a[ ]={12,14,16,18} and set sum =0**
**for i=0 to n**
  **if( a[i] mod 2 equals 0)**
  **sum=sum+a[i]**
**end for loop**
**print sum**

○ 1

◉ 60

○ 0

○ 18

17. **What will be the output of the following pseudocode?**
**int m = 9, n = 6**
**m = m + 1**
**n = n - 1**
**m = m + n**
**if(m > n)**
  **print m**
**else**
  **print n**

○ 5

◉ 15

○ 16

○ 4

18. **What will be the output of the following pseudocode for input =5?**

**Integer fun(integer n)**

  **If (n IS EQUAL TO 0)**

    **return 0**

  **otherwise if (n is equal to 1)**

    **return 1**

  **otherwise**

    **return (n * n + fun(n-2))**

**End function fun()**

- ( • ) **35**
- ( ) **40**
- ( ) **45**
- ( ) **25**