BIZOTIC

COMPANY SPECIFIC SERIES
ACCENTURE – PSEUDOCODE - TRAINER HANDOUT

1. What will be the output of the following pseudocode for a = 3, b = 8?

```
Integer funn(Integer a, Integer b)
        if(b mod a < 2)
                b = b >> 1
                return a
        End if
        if(a mod b < 2)
                b = b + 12
                return b
        end if
        return a + b + 5
End function funn()
```

a. 4 b. None of these c. 16 d. 12

Answer: c. 16

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

```
Integer value, n, num
Set value = 1, n = 45
num = num >> 1
num = num + value
Print num
```

a. 44 b. 0 c. 1 d. 12

Answer: c. 1

3. What will be the value of the following pseudocode?

```
Integer j, m
Set m = 1, j = 1
Integer a[3] = {0,1,4}
if (a[m - 1] || (a[-1] && a[1]))
a[j] = 5
End if
m = m + a[j]
Print m
```

a. 3 b. 4 c. 6 d. 2

Answer: c. 6

4. What will be the value of the following pseudocode for x = 27?

```
Integer fun(Integer x)
if(x > 9)
fun(x/9)
Print x - 1
fun(x/3)
else
print x - 2
end if
end function fun()
```

a. 1 26 7 b. 26 7 1 c. 9 8 2 d. 7 80 1

Answer: a. 1 26 7

5. What will be the value of the following pseudocode?

```
Integer x,y
for(each x from 1 to 11)
        x = x + 2
end for
Print x
```

a. 11 b. 10 c. 12 d. 13

Answer: d. 13

6. What will be the value of the following pseudocode?

```
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 for loop
else
        Print Error Message
Print sum
```

a. 6 b. 21 c. 15 d. 9

Answer: b. 21

7. What will be the value of the following pseudocode?

```
Integer j, m
Set m = 1, j =1
Integer a[3] = {0, 1, 0}
a[0] = a[0] + a[1]
a[1] = a[1] + a[2]
a[2] = a[2] + a[0]
```

```
if(a[0])
        a[j] = 5
End if
m = m = a[j]
Print m
```

a. 3 b. 2 c. 6 d. 4

Answer: c. 6

8. Which of the following options is correct for the given code for n = 39 and r = 13?

```
Integer f1(Integer n, Integer r)
if(n > 0)
return (n - r + f1(n/3, 13))
else
return 0
end if
End function f1 ()
```

a. 3 b. 0 c. 5 d. 1

Answer: c. 5

9. What will be the value of the following pseudocode for k=150?

```
fun(integer k)
        if(k>155)
                return
        end if
        print k
        fun(k+2)
        print k
End of function fun( )
```

a. 150 152 154 b. 150 152 154 154 152 150 c. 150 d. None of the mentioned

Answer: b. 150 152 154 154 152 150

10. Which of the following is the most appropriate option for the output of the given pseudocode for n = 25?

```
Integer foo(Integer n)
if(n EQUALS 1)
        return 1
else if((n MOD 2) EQUALS 0)
        return n*2
else
        return foo(n - 10/3)
end if
```

End function foo( )

a. 20 b. 44 c. 15 d. 25

Answer: b. 44

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

```
Integer a, n, b
Set a = 0, n = 0, b
for(each n from 0 to 4)
        n = n + 1
        if(n EQUALS 3)
                Print "Hello World"
        end if
        Jump out of the loop
End for
Print n
```

a. 2 b. 1 c. 3 d. Hello World

Answer: b. 1

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

```
Integer a[5], b[5], c[5], k, l
Set a[5] = {5, 9, 7, 3, 1}
Set b[5] = {2, 4, 6, 8, 10}
for(each k from 0 to 4)
        c[k] = a[k] - b[k]
end for
for(each l from 0 to 4)
        Print c[l]
end for
```

a. 7 13 13 11 11 b. 3 5 1 -5 -9 c. -3 -5 -1 5 9 d. None

Answer: b. 3 5 1 -5 -9

13. How many times "A" will be printed in the following pseudocode?

```
Integer a, b, c
for(a = 0 to 4)
        for(b = 0 to 2)
                if(a is greater than b)
                        Print "A"
                End if
        End for
End for
```

a. 8 b. 7 c. 9 d. 10

Answer: c. 9

14. What will be the output of the following pseudocode for a = 3?

```
void fun(int a)
if(a<1)
        return
else
        print a
        fun(a-2)
        print a
        return
End function fun( )
```

a. 2 1 1 2 b. 1 2 c. 2 1 0 d. 3 1 1 3

Answer: d. 3 1 1 3

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

```
Integer p, q r
Set q = 13
for(each p from 1 to 4)
        r = q mod p
        p = p + 5
        q = p + r
end for
r = q/5
Print q, r
```

a. 6 4 b. 1 3 c. 7 2 d. 6 1

Answer: d. 6 1

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

```
Integer x
Set x = 259
if(x EQUALS 0)
        Print "0"
otherwise if(x MOD 9 EQUALS 0)
        Print "9"
otherwise
        Print x MOD 9
end if
```

a. 8 b. 16 c. 7 d. None

Answer: c. 7

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

```
Integer a[5], b[5], c[5], k, l
Set a[5] = {1, 2, 3, 4, 5}
```

```
Set b =[5] = {6, 7, 8, 9, 10}
for(each k from 0 to 4)
        c[k] = a[k] + b[k]
end for
Print c[1]
end for
```

a. 11 12 13 14 15 b. None c. 7 8 9 10 11 d. 7 9 11 13 15

Answer: d. 7 9 11 13 15

18. Which of the following output is correc for the given code if n = 64?

```
Integer large(Intger n)
        if(n <=1)
                return 1
        end if
        if(n mod 4 EQUALS 0)
                return large(n/4)
        end if
        return large(n/4) + large(n/4 * 1)
End function large( )
```

a. 1 b. 0 c. 6 d. 4

Answer: a. 1

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

```
Integer j, m
Set m = 1, j = 1
Integer a[5] = {6, 4, 3, 1, 4}
if(a[m - 1])
        a[j] = a[j] + 5
End if
m = m + a[j]
Print m
```

a. 10 b. 9 c. 8 d. 4

Answer: a. 10

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

```
Integer j, m
Set m = 4
Integer a[4] = {4, 13, 2, 1}
for{each j from 0 to 3}
        if(j > 1)
                m = m + a[j]
```

```
        End if
        if(j > 2)
                Continue
        End if
        m = m + 1
        End for
Print m
```

a. 8 b. 10 c. 1 d. 4

Answer: b. 10

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

```
Integer a, b, count, count1
Set a = 1, b = 1
while(a <= 5)
        b = 1
        while(b <= 5)
                b = b + 1
                count1 = count1 + 1
        end while
        a = a + 1
        count = count + 1
end while
Print count, count 1
```

a. 25 5 b. 24 5 c. 5 25 d. 5 5

Answer: c. 5 25

22. What will be the output of the following pseudocode a=2, b=2?

```
Integer funn(Integer a, Integer b)
if(a & b > 0)
return 1 + funn(a - 1, b) + funn(a, b - 1)
End if
return 0
End function funn( )
```

a. 0 b. 2 c. 4 d. 9

Answer: a. 0

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

```
Integer a, b
Set a = 12, b = 25
a = (a + b) MOD 2
b = b = a
a = a + b - 13
```

Print a, b
a. -11 1 b. -12 00 c. 11 22 d. 37 24

Answer: a. -11 1

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

```
Integer i
Set i = 0
Start : i = 12
Print i
if(i < 60)
        goto Start
else
Print i + 1
end if
```

a. 0 12 0 12 13 b. 12 24 36 48 60 61 c. 12 infinite times d. 0 12 24 25

Answer: c. 12 infinite times

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

```
Integer y1, y2
Set y1 = 8, y2 = 8
do
print y1/y2
while(y1/y2)
end do while
```

a. It will print 1 infinite time b. 8 c. 0 d. 1

Answer: a. It will print 1 infinite time

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

```
Integer a, b, c
Set b = 10, a = 1
for(each c from 1 to 3)
        a = (a + c) * c
        b = b - c
End for
if (0 && 1 && (2^3))
        b = a - 1
        a = a - 1
        a = b + 1
        a = a >> 1
        b = b >> a
Else
        a = b + 1
```

```
        b = a - 1
        a = a - 1
End if
Print a + b
```

a. 7 b. 3 c. 4 d. 8

Answer: d. 8

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

```
Integer a, b, c
Set a = 4, b = 4 , c = 4
if(a & (b ^ b) & c)
        a = a >> 1
End if
Print a + b + c
```

a. 16 b. 24 c. 8 d. 12

Answer: d. 12

28. What will be the output of the following pseudocode for a = 10, b = 11?

```
Integer funn(Integer a, Integer b)
        if(0)
                return a - b - funn(-7, -1)
        End if
        a = a + a + a + a
        return a
End function funn( )
```

a. 40 b. 30 c. 44 d. 0

Answer: a. 40

29. What will be the output of the following pseudocode for a = 5, b = 1?

```
Integer funn(Integer a, Integer b)
        if((b + a || a - b) && (b > a) && 1)
                a = a + b + b - 2
                return  3 - a
        Else
                return a - b + 1
        End if
        return a + b
End function fun( )
```

a. 0 b. 5 c. 16 d. 11

Answer: b. 5

30. What will be the output of the following pseudocode for a = 5, b = 3?

```
Integer funn(Integer a, Integer b)
        if((b mod a > a mod b) || (a ^ b > a))
                a = a ^ b
                if(a)
                        b = 1
                        return 4^5^6
                End if
                return 1^2^3
        End if
        return a+b
End function funn ( )
```

a. 7 b. 9 c. 16 d. 3

Answer: a. 7

31. What will be the output of the following pseudocode for a = 5, b = 1?

```
Integer funn(Integer a, Integer b)
        if((b mod a && a mod b) || (a ^ b > a))
                a = a ^ b
        Else
                return a - b
        End if
        return a + b
End function funn( )
```

a. -9 b. 5 c. 6 d. 21

Answer: b. 5

32. What will be the output of the following pseudocode a = 1, b = 3?

```
Integer funn(Integer a, Integer b)
        if(a&1 && 1)
                return funn(a-1, a+a) + funn(a-1, b+b)
        Else
                return b^a
End if
```

a. 8 b. 26 c. 1 d. 15

Answer: a. 8

33. What will be the output of the following pseudocode for a = 4, b = 8?

```
Integer funn(Integer a, Integer b)
        if(a > b)
                b = b ^ a
        End if
```

```
        if(b > a)
                a = a ^ b
        End if
        return a + b
End function funn ( )
```

a. 35 b. 20 c. 14 d. 25

Answer: b. 20

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

```
Integer x
Set x = 2
if(x is EQUAL TO 1)
        if(x IS EQUAL TO 0)
                Print "A"
        else
                Print "B"
        end if
else
        Print "C"
end if
```

a. B C b. C c. A d. B

Answer: b. C

35. What will be the output of the following pseudocode for input 7?

```
Read the value of N.
Set m = 1, T = 0
if(M>N) // line 3
        Go to line no. 9
else
        T = T + m
        m = m + 1
        Go to line no. 3
        Print T // line 9
```

a. 76 b. 32 c. 56 d. 28

Answer: d. 28

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

```
Integer a, b
Set b = 2
for(each a from 1 to 6)
        a = a + 2
        b = b + a - 4
```

```
end for
Print b
```

a. 3 b. 4 c. 1 d. 8

Answer: a. 3

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

```
Integer value, n
Set value = 1, n = 45
while(value less than equal to n)
        value = value << 1
end loop
Print value
```

a. 64 b. 32 c. None d. 45

Answer: a. 64

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

```
Integer j, m
Set m = 1
Integer a[4] = {1, 0, 1, 1}
for(each j from 0 to 1)
        if(j > 2)
                Continue
        Else
                if(a[j])
                        m = a[j]
                End if
        End if
End for
Print m
```

a. 5 b. 8 c. 1 d. 7

Answer: c. 1

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

```
Integer a, b, c
Set a = 4, b = 0, c = 0
if(a)
        a = a << 1
End if
b = b ^ (c >> 1)
Print a + b + c
```

a. 11 b. 5 c. 8 d. 18

Answer: c. 8

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

```
Integer a, b, c
Set a = 4, b = 2, c = 3
if(a || a & b || a & b & c)
        c = 1
        a = c ^ 1
Else
        c = 1
        b = b ^ 3
End if
Print a + b + c
```

a. 4 b. -1 c. 3 d. 23

Answer: c. 3

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

```
Integer a, b, c
Set a = 5, b = 5, c = 9
if((b && (c >> 1)) || (b && (c << 1)))
        a = a^ 1
End if
Print a + b + c
```

a. 18 b. 27 c. 14 d. 19

Answer: a. 18

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

```
Integer a, b, c
Set a = 4, b = 1, c = 2
if(b ^ (c & a) && a ^ (c & b))
        c = a + a
        a = c + c
Else
        c= b + b
        b = c + c
End if
Print a + b + c
```

a. 22 b. 31 c. 34 d. 25

Answer: d. 25

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

```
Integer a, b, c
Set a = 1, b = 2
for(each c from 4 to 6)
        a = a ^ b
        if(c - a < b + a)
                b = 2
                a = 1
                Jump out of the loop
        End if
        a = a ^ c
End for
Print a + b
```

a. -2 b. 8 c. 3 d. 16

Answer: c. 3

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

```
Integer a, b, c
Set a = 2, b = 1
for(each c from 1 to 5)
        if(c > 3 || b > 3)
                a = a + c
        End if
        b = b - 1
        b = b + a
End for
b = b + 1
Print a + b
```

a. 30 b. 33 c. 31 d. 37

Answer: c. 31

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

```
Integer a, b, c
Set a =4, b = 1, c = 2
if(b ^ (c & a) && a ^ (c & b))
        c = a + a
        a = c + c
Else
        c = b + b
        b = c + c
End if
Print a + b + c
```

a. 22 b. 31 c. 34 d. 25

Answer: d. 25

46. What will be the output of the following pseudocode for a = 6, b = 7?

```
Integer funn(Integer a, Integer b)
        if(a < b && a > 0)
                a = a + 10
                if(a > 0 && b> 0 )
                        a = a ^ b
                End if
                a = a >> 1
        End if
        return a + b
End function funn( )
```

a. 27 b. 14 c. 18 d. 20

Answer: c. 18

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

```
Integer a, b
Set b = 8
Set a = b
Print a // line 4
a = a + b - 10
if(a > 0)
Go to line 4
End if
```

a. 8 8 8 0 b. 6 4 2 0 c. 8 6 4 2 d. 8 4 2

Answer: c. 8 6 4 2

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

```
Integer a, b
Set a = 20, b = 4
while (a >= b)
        a = a >> 1
end while
Print a
```

a. 2 b. 3 c. 4 d. 5

Answer: a. 2

49. What will be the value of s if n = 127?

```
Read n
i=0,s=0
Function Sample(int n)
while (n>0)
        r = n%l0
        p = 8^i
        s = s+p*r
i++
n = n/10
End While
return s;
End Function
```

a. 27 b. 187 c. 87 d. 120

Answer: c. 87

Solution: The following code is converting an octal number into its decimal representation. Here we are treating 127 as an octal input and converting it into its decimal representation that is 87.

50. What will be the value of s if N=20?

```
Read N
Function sample(N)
s = 0, f = 1, i=1;
Do Until i <= N
        f = f * i;
        s = s +(i / f);
        i = i+1
End Do
        return(s);
End Function
```

a. 666667 b. infinite loop c. 708333 d. 716667

Answer: b. infinite loop

Solution: This code will never end because the value of n is never been updated.

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

```
1 Integer x, y
2 Set x = 4, y = 7
3 X = x + y
4 Y = x - y
5 X = x + 4
6 Print x, y
```

A. 15, 4
B. 4, 7
C. 11, 4
D. None of the mentioned options

Answer: B

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

```
Integer a, b, c
Set a = 1, b = 2
For (each c from 1 to 3)
if(a + (b ^ c) )
a = a + 1
if ( c ^ 2 )
      Continue
     End if
  End if
a = a + 1
End for
a = a + 1
Print a + b
```

Note- Continue: When a continue statement is encountered inside a loop, control jumps to the beginning of the loop for next iteration, skipping the execution of statements inside the body of the loop for the current iteration.
^ is the bitwise 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. 8
B. 9
C. 10
D. 11

Answer: A

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

```
Integer a, b, c
Set a = 1,  = 1
for (each c from 4 to 7)
        if (a > c)
                a = a - 1
                Jump out of the loop
        Else
                a = a + c
                if(c)
                        a = a +1
         End if
End for
Print a + b
```

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

A. 7
B. 9
C. 2
D. 6

Answer: D

54. What will be the output of the following pseudocode for a = 4, b = 6?

```
1 Integer funn (Integer a, Integer b)
2 a = a << (a-2)
3 b = b >> (b-5)
4 a = a + 1
5 b = b + 1
6 Return a + b
7 End function funn()
```

[Note>> bitwise right shift operator, it takes two numbers, right shifts the bits of the first operand, the second operand decides the number of places to shift.
<< is left shift operator, it takes two numbers, left shifts the bits of the first operand, the second operand decides the number of places to shift]

A. 21
B. 33
C. 19
D. 22

Answer: A

55. What will be the output of the following pseudocode for a = 3, b = 0?

```
1 Integer funn (Integer a, Integer b)
2       if(b)
3            return 1
4       Else
5            return funn (a+2, b+1)
6       End if
7 End funn()
```

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

A. 4
B. 14

C. -18
D. 1

Answer: D

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

```
Integer a,b , c
Set a=0, b=1, c=2
If (b^c || a&b || a>>1)
       c = 9
       a = b + c
Else
        c = 1
       a = b + c
End if
Print a + b + c
```

[Note - >>-Bitwise right shift operator, it takes two numbers, right shifts the bits of the first operand, the second operand decides the number of places to shift.
&: bitwise AND - The bitwise AND operator (&) compares each bit of the first operand to the corresponding bit of the second operand. If both bits are1, the corresponding result bit is set to 1. Otherwise, the corresponding result bit is set to 0.
^ 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 bit is set to 0.

A. 13
B. 0
C. 20
D. 45

Answer: C

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

```
Integer a, b, c, d
a = 103, b = 102, c = 11, d = 10
a = a - b
b = (b-2) * (a&b)
c = (c & a) + (b-2)
if(c MOD a EQUALS 0 OR fun(c ^ 15))  // create function to get boolean as return
      d = d + 13
end if
Print d
```

[Note: MOD finds the remainder the division of one number by another. For example, the expression "5 MOD 2" would evaluate to 1 because 5 divided by leaves a quotient of 2 and a remainder of 1.
& - Bitwise AND operator, it takes two numbers as operands and does AND on every bit of two numbers. The result of AND is 1 only if both bits are 1.
^ - 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]

A. 13
B. 0
C. 23
D. 56

Answer: C

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

```
Integer result and set num1=5, num2=7, num3=6 result
if(num1 > num2)
   if(num1 > num3)
      result = num1
    else
      result = num3
else
    if(num2 > num3)
      result = num2
    else
      result = num3
Print result
```

A. 7
B. 5
C. None of the mentioned options
D. 4

Answer: A

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

```
Integer a, b, c
Set a = 2, b = 3
for (each c from 3 to 5)
      if(c > 3 || b > 3)
          a = a + c
      End if
       b = b - 1
       b = b + 2
End for
b = b + 1
Print a + b
```

[Note: || : 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]

A. 37
B. 18
C. 31
D. 32

Answer: B

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

```
1 Integer a, b, c
2 Set a = 1, b = 1
3 for (each c from 3 to 6)
4     a = a + b
5     if(a<0 || b>0)
6       b  = 10
7         a = 11
8         continue
9     End if
10    b = a
11    a = b
12 End for
13 Print a + b
```

[Note- Continue: When a continue statement is encountered inside a loop, control jumps to the beginning of the loop for next iteration, skipping the execution of statements inside the body of the loop for the current iteration.
||: 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]

A. 23
B. 45
C. 56
D. 21

Answer: D

61. What will be the output of the following pseudocode for a = 5, b = 4?

```
1 Integer funn (Integer a, Integer b)
2     a = a + b
3     b = a - b
4     a = a + b
5     b = a - b
6     return a + b
7 End function funn()
```

A. 20
B. 23
C. 28
D. 42

Answer: B

62. What will be the output of the following pseudocode for a = 2, b =5?

```
Integer funn(Integer a, Integer b)
      if(a + a - b > 0)
        b = 2
      End if
     return a + b
End function funn()
```

A. 7
B. 15
C. 5
D. 8

Answer: A

63. What will be the output of the following pseudocode for a = 99, b = 2?

```
Integer funn (Integer a, Integer b)
    Integer s
    Set s = 2
    a = a + s
    b = b + a
    a = 0
    if(a)
        return a
    Else
        a = a + s
        b = b + a
    End if
    return a
End function funn()
```

A. 2
B. 8
C. 6
D. 3

Answer: A

64. What will be the output of the following pseudocode for a = 4, b = 9?

```
1 Integer funn ( Integer a, Integer b)
2         if((a & b) & (b ^ a) > 0)
3                 a= 0
4       End if
5       Return a + b
6    End function funn()
```

Note- &: bitwise AND - The bitwise AND operator (&) compares each bit of the first operand to the corresponding bit of the second operand. If both bits are 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. 17
B. 4
C. 32
D. 13

Answer: B

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

```
1 Integer c, n
2   Set n = 6
3   Set c = n
4 Print c //Line 4
5 C = c - 2
6 If(c > 0)
7         Go to line number 4
8     End if
```

A. 246
B. 0246
C. 6420
D. 666

Answer: D

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

```
Integer a, b, c
Set a = 2, b = 4, c = 3
If(a-2 || -4 || c-3)
    B = b ^ c
  End if
if(a-1 || b-3 || c-2)
       B = b & c
End if
Print a + b + c
```

Note- &: bitwise AND - The bitwise AND operator (&) compares each bit of the first operand to the corresponding bit of the second operand. If both bits are 1, the corresponding result bit is set to 1. Otherwise, the corresponding result bit is set to o.
^ 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 o and other bit is 1, the corresponding result bit is set to 1. Otherwise, the corresponding result bit is set to 0
II: Logical OR - The logical OR Operator (II) returns the boolean value TRUE(or 1) if either or both operands is TRUE and returns FALSE(or 0) otherwise]

A. 10
B. 45
C. 5
D. 7

Answer: C

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

```
Integer a, b, c
Set a = 1, b = 4, c = 2
If (1 && 1)
          C = (a & b) + (a^b)
          if(c)
          C = a
      End if
  End if
  Print c + a + b
```

Note- &&:Logical AND - The logical AND operator (&&) returns the Boolean value true(or 1) if both operands are true and return false {or 0) otherwise
&: bitwise AND - The bitwise AND operator (&) compares each bit of the first operand to the corresponding bit of the second operand. If both bits are 1, the corresponding result bit is set to 1. Otherwise, the corresponding result bit is set to 0.
^ is the bitwise exculsive 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. 4
B. 5
C. 6
D. 7

Answer: C

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

```
1 Integer a, b, c
2 Set a=1, b = 0, c =3
3 If (a &1)
4          A = (a & b) & (a ^ b)
5          B = (a & b) ^  (a ^ b)
6      End if
7     Print a + b + c
```

Note-&: bitwise AND operator (&) compares each bit of the first operand to the corresponding bit of the second operand. If both bits are 1, corresponding result bit is set to 1. Otherwise, the corresponding result bit is set to 0.
^ 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. 1
B. 2
C. 3
D. 4

Answer: C