Object Oriented Programming

1. Write the output:
   a.   int x = 11 & 9;
      int y = x ^ 3;
      System.out.println(y | 12);
       x= 0 ; y= 0;
      for (int z = 0; z < 5; z++)   {
         if ((++x > 2) && (++y > 2))   {
           x++;   }   }
      System.out.println(x + " " + y);

   b.   double num[] = {5.5, 10.1, 11, 12.8, 56.9, 2.5};
      float result=0;
       for (int i = 0; i < 5; ++i)
       result = result + num[i];
       System.out.print(result/6);

   c.   int count=0;
      boolean [] b = { true, false, true};
      if (b[0] && b[1] | b[2])
         count++;
      if (b[1] && b[(++count - 2)])
         count += 7;
         System.out.println("count = " + count);

2. How many times the loop gets continued in the following code and what will
   be the last value of y?

   class Test3
   {public static void main(String arg[])
    {int x =7,y=20;
      do{
         if (++y % x == 1)
               continue;
           else if (y == 22)

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        break;
        else
                System.out.print(y + " ");
}while(y<25);
}
}
```

1. Write a java program to search value and displays the number and position of its occurrence in the given list of values(max 5values). The program accepts input as command line arguments. The first value in the command line arguments is the search key and this key value is searched for in the remaining list of command line arguments.

2. A special two-digit number is such that when the sum of its digits is added to the product of its digits, the result is equal to the original two-digit number.
    Example: Consider the number 59.
    Sum of digits = 5 + 9 = 14
    Product of its digits = 5 x 9 = 45
    Sum of the sum of digits and product of digits= 14 + 45 = 59

3. Write a program to accept a two-digit number. Add the sum of its digits to the product of its digits. If the value is equal to the number input, output the message "Special 2-digit number" otherwise, output the message "Not a Special 2-digit number"
4. Write a program to input three integers as command line arguments and print the largest among them?
5. Write a Java program to find largest and smallest among 3 numbers using ternary operator.
6. Write a Java Program to develop a employee data maintenance application. The programs should do the following:

     Create a class "Employee" {String name, int id int salary} with suitable constructors and methods to display the class contents. Create an array of 5 employee objects

7. Write a java program to search for a value in a 1 dimensional array using for each loop construct. Assume that the array is initialized at the time of declaration and user enters the value to be searched for.

    Input: a[]={1,2,3,1,2,1,5,6,7} searchValue= 1

Expected Output : The value is found at locations: a[0] ,a[3],a[5]