# Boot Camp Day-2

| No | Quiz/ Question | Input Data | Output | Hint | Question type |
|---|---|---|---|---|---|
| 1 | Consider user has N oranges. Then display the number of oranges in gross(144 oranges make one gross) and number of oranges in dozen (12 oranges make one dozen) and the number of oranges that is left out. The total number of oranges can be got as input through console. Write a java program to display how many gross, how many dozen, and how many left over oranges the user has. For example, if the input is 1342 oranges, then the program should respond with:<br>Your number of oranges is 9 gross, 3 dozen, and 10. | Enter number of oranges:  1342 | Your number of oranges is 9 gross, 3 dozen, and 10. | if statement | Control statement |
| 2 | Write a java program to check whether the number is a prime number. If it is a prime number, display the number along with the alphabet 'p' appended to it. | Input any integer: 5 | 5p | if and loop statement | Control statement |
| 3 | Write a class in java accept the scholar name, id and marks of five subjects Physics, Chemistry, Biology, Mathematics and Computer. Calculate percentage and grade according to following:<br><br>Percentage >= 90% : Grade A<br>Percentage >= 80% : Grade B<br>Percentage >= 70% : Grade C<br>Percentage >= 60% : Grade D<br>Percentage >= 40% : Grade E<br>Percentage < 40% : Grade F | Input the values for the said fields using constructor and use appropriate function to display the answer | Scholar id,name and grade. | Oops | Classes, objects |

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| 4 | Create an array of N strings and copy the strings to another array which are starting with alphabet 'S'. Finally print both the arrays. | Input the string for the array:<br>Ravi<br>Sashi<br>Shree<br>Tree<br>Vinnoth | Array1 elements are:<br>Ravi<br>Sashi<br>Shree<br>Tree<br>Vinnoth<br>Array2 elements are:<br>Sashi<br>Shree | Read the array elements | Array |
| 5 | Find the intersection elements of two given arrays. | a = {10, 4, 5, 8, 6}<br>b= {9, 5, 4, 7, 11} | c = {4, 5} | Use a method which accepts two int array parameters and returns another array with the expected result | |
| 6 | Write a java program to implement selection sort. | Input the array elements:<br>4 8 1 3 45 12 | Array elements after sorting:<br>1 3 4 8 12 45 | Use loop statement to read array elements and enhanced for loop to print the array elements. | Array |
| 7 | Write a program to remove duplicates from an array. | {10, 4, 5, 4, 8, 10} | {10, 4, 5, 8} | Use a method which accepts an array as parameter and returns another array with duplicate elements removed | Array |

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| 8 | Find the max and min value from an given array. | {10, 4, 5, 4, 8, 10} | Max = 10 & Min = 4 | Use two methods max() and min(). Find without sorting the array. | Array |
| 9 | 5 different marks are stored for a student in an array of size 10. Now, write code to insert a new assessment mark at an input position in the array and print the total marks before and after insert of the new mark. | {56,65,67,87,47} | {56,65,78,67,87,47}.. | Input the array elements | Array |
| 10 | Create two arrays of integers and check whether the arrays are equal or not. | {2,5,7,1,2}<br>{7,1,9,8,4} | Not equal. | Use equals() method in Arrays class. | Array |
| 11 | Write a program to compute Crazy Factorial of a number<br>Crazy Factorial of 6 would be 6 X- 5 x 4 x -3 x 2 x -1<br>Crazy Factorial of 5 would be 5 x -4 x 3 x -2 x 1 | 6<br>5<br>1<br>2 | -720<br>120<br>1<br>-2 | Use for loop | Control statement |
| 12 | Write a program to check whether a triangle is valid or not, when the three angles of the triangle are as below. A triangle is valid if the sum of all the three angles is equal to 180 degrees. | 50,15,115<br>15,15,100<br>105,65,20 | Triangle<br>Not a Triangle<br>Not a Triangle | Use for enhanced to print the array elements. | Array |