

Boot Camp Day-1

No	Quiz/ Question	Input Data	Output	Time (Min)	Hint	Question type	Remarks
1	Print Ascii values for all the lower case alphabets.	No input	97, 98, 99,	15 Mins	Use for loop	CF(loop)	With algorithm
2	Input the age of 3 friends and determine oldest and youngest among them. Note: Use conditional operator.	24 21 25	Oldest friend: 25 Years Youngest friend: 21 Years	16 Mins	Ternary operator	Operator	With flowchart
3	There are n number of apples in a bag and m number of apples are added into the same bag. Print total number of apples in the bag using bitwise operator(s).	Number of apples: 23 Number of apples to be added: 12	Total number of apples: 35	17 Mins	Bitwise operator	Operator	
4	Read 5 integers into 5 variables and print average of only positive integers.	1 2 4 5 6 1 -2 4 -5 6 -15	3 3 0	15 Mins	Use if statement	Identifiers/Operator/CF	With flowchart
5	Create a Program to accept Name, Age and Gender Print Name: <name input> Age:<input> Gender:<input M/F>	Raj, 18, M	Name: Raj, Age: 18 and Gender: M	12 Mins	Variables	Identifiers/Operator	Print the output in the given format.

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6	Write a program to print number of years, weeks and days based on an input number.	Input number of days: 375	Number of years: 1, Number of weeks: 1 and Number of days: 3	15 Mins	Operators	Identifiers and Operators.	
7	Create a program to check whether an input alphabet is Consonant or Vowel. If the user inputs a number, print "Invalid data".	1. Input an alphabet: a 2. Input an alphabet: 5	1. Input character is vowel. 2. Invalid data.	16 Mins	Use switch statement	Control flow statement	With algorithm
8	Write a program to compute quotient and Remainder based on dividend and divisor.	Command line arguments are: 55 8	Quotient: 6 Remainder: 7	10 Mins	Dividend and divisor need to be supplied from command line.	Command line arguments.	
9	Generate a fibonacci series for n numbers using recursive method.	n=5	0 1 1 2 3	15 Mins		Control flow statement	

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10	Get two numbers as input from the user through console and swap the values of two numbers without using a temporary variable and display the same pre and post swap.	Input two integers: 10 20	Pre swap: 10 20	10 Mins	Read from stdin.	Operator	
11	<p>What will happen when you execute the following code:</p> <pre> public class While { public static void main(String str[]){ while(1.1) { System.out.println("Ok"); } } } </pre>	No input		5Mins	Don't type and execute the program, only write your answer in the document.		
	<p>ArmStrong Number: If the sum of cubes of digits is equal to the given no.</p> <p>then the number is armstrong number.($153 = 1^3 + 125 + 27 = 153$)</p>						

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12	<p>Now what code to be inserted to know whether a Number is Armstrong or not.</p> <pre> private static boolean isArmStrong(int num) { int res = 0; int orig = num; while(num != 0){ int rem = //insert here res = //insert here num = // insert here }if(orig == res){ return true;} return false;} </pre>	Input number is: 153	Ginven number is ArmStrong	10 Mins		Control flow statement	