**Velammal College of Engineering and Technology, Madurai**

**Department of Computer Science and Engineering**

**Object oriented programming lab**

**Exercise 1**

**Team 1**

1. Find Maximum of 2 nos. and get the input through command line argument.
2. Write a program to display a greet message according to Marks obtained by student.
3. Write a program to Concatenate  string using for Loop  
      Example: Input - 5

Output - 1 2 3 4 5

1. Find the smallest and largest and smallest in given array.
2. Write a program to prompt the user to enter a number and then it should print that number is prime or not

**Team 2**

1. Find Minimum of 2 nos. And get the input through command line argument.
2. Write a program to find SUM AND PRODUCT of a given Digit
3. Write a program to convert given no. of days into months and days.

(Assume that each month is of 30 days)

   Example :

Input - 69

Output - 69 days = 2 Month and 9 days

1. Write a program to display a greet message according to Marks obtained by student using switch case.Condition: 10 (Excellent)

9-8 (very good)

7-6 (Good)

5-3(poor)

2-0(very poor)

1. Write a simple java application to output given number have 1 digit, 2 digit or 3 digits

**Team 3**

1. Find Minimum of 2 nos. using conditional operator.
2. Write a program to find sum of all integers greater than 100 and less than 200 that are divisible by 7
3. Write a program to generate Harmonic Series.

Example:  Input – 5

Output - 1 + 1/2 + 1/3 + 1/4 + 1/5 = 2.28 (Approximately)

1. Write program to convert digit into words.

**Example : Input – 124**

**Output - One Two Four**

1. Write a java program to check whether given number is palindrome or not

**Team 4**

1. Write a Java program that prompts the user for an integer and then prints out all prime numbers up to that Integer.
2. Write a java program to find whether the number is odd or even numbers in an array.
3. Write a program to generate 5 Random nos. between 1 to 100, and it should not follow with decimal point.
4. Write a program that will read a float type value from the   keyboard and print the following output.

    ->Small Integer not less than the number.

    ->Given Number.

    ->Largest Integer not greater than the number.

1. Write a program to search a given number in an array

**Team 5**

1. Find Minimum of 2 nos. using conditional operator.
2. Write a Java program to calculate the revenue from a sale based on the unit price and quantity of a product input by the user.

The discount rate is 10% for the quantity purchased between 100 and 120 units, and 15% for the quantity purchased greater than 120 units. If the quantity purchased is less than 100 units, the discount rate is 0%. See the example output as shown below:

Enter unit price: 25

Enter quantity: 110

The revenue from sale: 2475.0

After discount: 275.0(10.0%)

1. Count the numbers from 1 to n that have 5 as a digit.
2. Write a program to Concatenate  string using for Loop  
      Example: Input - 5

Output - 1 2 3 4 5

1. Write a program that prints the sum of odd and even integers that are stored in an array

**Team 6**

1. Write a program to display a greet message according to Marks obtained by student using switch case.Condition: 10 (Excellent)

9-8 (very good)

7-6 (Good)

5-3(poor)

2-0(very poor)

1. Find the smallest and largest in given array.
2. Write a program to find sum of all integers greater than 100 and less than 200 that are divisible by 7
3. Write a Java program to swap two variables.
4. Write a java program to check whether the given number is Armstrong or not.

**Team 7**

1. Write a java program to search a number in given number.
2. Write a Java program to find the distance travelled by light in specified no of days.
3. Write a Java program to calculate the revenue from a sale based on the unit price and quantity of a product input by the user.

The discount rate is 10% for the quantity purchased between 100 and 120 units, and 15% for the quantity purchased greater than 120 units. If the quantity purchased is less than 100 units, the discount rate is 0%. See the example output as shown below:

Enter unit price: 25

Enter quantity: 110

The revenue from sale: 2475.0

After discount: 275.0(10.0%)

1. Write a program to find sum of all integers greater than 100 and less than 200 that are divisible by 8.
2. Write a program to check whether the array contains duplicate elements