**Assignment 3**

**1- Write a program that takes a number from the user then print yes if that number can be divided by 3 and 4 otherwise print no.**

**Example (1)**

Input: 12

Output: Yes

**Example (2)**

Input: 9

Output: No

**2- Write a program that allows the user to insert an integer then print negative if it is negative number otherwise print positive.**

**Example (1)**

Input: -5

Output: negative

**Example (2)**

Input: 10

Output: positive

**3- Write a program that takes 3 integers from the user then prints the max element and the min element.**

**Example (1)**

Input:7,8,5

Output:

max element = 8

min element = 5

**Example (2)**

Input: 3 6 9

Outputs:

Max element = 9

Min element = 3

**4- Write a program that allows the user to insert an integer number then check If a number is even or odd.**

**5- Write a program that takes character from the user then if it is a vowel chars (a,e,I,o,u) then print (vowel) otherwise print (consonant).**

**Example (1)**

Input: O

Output: vowel

**Example (2)**

Input: b

Output: Consonant

**6- Write a program that allows the user to insert an integer then print all numbers between 1 to that number.**

**Example**

Input: 5

Output: 1, 2, 3, 4, 5

**7- Write a program that allows the user to insert an integer then**

**print a multiplication table up to 12.**

**Example**

Input: 5

Outputs: 5 10 15 20 25 30 35 40 45 50 55 60

**8- Write a program that allows to user to insert number then print all even numbers between 1 to this number**

**Example:**

Input: 15

Output: 2 4 6 8 10 12 14

**9- Write a program that takes two integers then prints the power.**

**Example:**

Input: 4 3

Output: 64

**Hint:** how to calculate 4^3 = 4 \* 4 \* 4 =64

**10- Write a program to enter marks of five subjects and calculate total, average and percentage.**

**Example**

Input: - Enter Marks of five subjects: 95 76 58 90 89

Output: Total marks = 408

Average Marks = 81

Percentage = 81

**11- Write a program to input the month number and print the number of days in that month.**

**Example**

Input: Month Number: 1

Output: Days in Month: 31

**12- Write a program to create a Simple Calculator.**

**13- Write a program to allow the user to enter a string and print the REVERSE of it.**

**14- Write a program to allow the user to enter int and print the REVERSED of it.**

**15- Write a program in C# Sharp to find prime numbers within a range of numbers.**

**Test Data :  
Input starting number of range: 1  
Input ending number of range : 50**

***Expected Output* :  
The prime number between 1 and 50 are :  
2 3 5 7 11 13 17 19 23 29 31 37 41 43 47**

**16- .** **Write a program in C# Sharp to convert a decimal number into binary without using an array.  
Test Data :  
Enter a number to convert : 25  
*Expected Output* :  
The Binary of 25 is 11001.**

**17- Create a program that asks the user to input three points (x1, y1), (x2, y2), and (x3, y3), and determines whether these points lie on a single straight line.**

**18- Within a company, the efficiency of workers is evaluated based on the duration required to complete a specific task. A worker's efficiency level is determined as follows:**

**- If the worker completes the job within 2 to 3 hours, they are considered highly efficient.**

**- If the worker takes 3 to 4 hours, they are instructed to increase their speed.**

**- If the worker takes 4 to 5 hours, they are provided with training to enhance their speed.**

**- If the worker takes more than 5 hours, they are required to leave the company.**

**To calculate the efficiency of a worker, the time taken for the task is obtained via user input from the keyboard.**