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.

19- . Write a program that prints an identity matrix using for loop, in other words takes a value n from the user and shows the identity table of size n * n.

20-What will be the output of the C# code given below?

```
int num = 1, z = 5;

if (!(num <= 0))
    Console.WriteLine( ++num + z++ + " " + ++z );
else
    Console.WriteLine( --num + z-- + " " + --z );
```

a) 5 6
b) 6 5
c) 6 6
d) 7 7