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

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

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

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.

21- Write C# program that Assigning one value type variable to another and modifying the value of one variable and mention what will happen

22- Write C# program that Assigning one reference type variable to another and modifying the object through one variable and mention what will happen

23- Which of the following statements is correct about the C#.NET code snippet given below?

```
int d;
d = Convert.ToInt32( !(30 < 20) );
```

a) A value `0` will be assigned to `d`.
b) A value `1` will be assigned to `d`.
c) A value `-1` will be assigned to `d`.
d) The code reports an error.
e) The code snippet will work correctly if `!` is replaced by `Not`.

24- Which of the following is the correct output for the C# code given below?

```
Console.WriteLine(13 / 2 + " " + 13 % 2);
```

a) 6.5 1
b) 6.5 0
c) 6 0
d) 6 1
e) 6.5 6.5

25- 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