

## Assignment 2

1. Write a program that reads a year then check if a year is a leap year or not: a leap year is divisible by 400 or 4 only

2. A school has following rules for grading system:

- a. Below 25 - F
- b. 25 to 45 - E
- c. 45 to 50 - D
- d. 50 to 60 - C
- e. 60 to 80 - B
- f. Above 80 - A

Ask the user to enter marks and print the corresponding grade.

3. Write a program that take character from user then if it is vowel chars (a,e,i,o,u) then print vowel otherwise print consonant

- Example Input o Output vowel
- Example 2 Input b Output consonant

4. Write a program that take 3 integer from user then print the max element and the min element.

- Example

Input 7 8 5

Output

max element = 8

min element = 5

- Example2

Input 3 6 9

Output

Max element = 9

Min element = 3

5. Write a program that print from 10 to 1 Output:

10 8 7 6 5 4 3 2 1

6. Write a program to read 10 numbers from the user then print the average.

Example

Input 5 3 2 6 7 1 10 9 8 4

Output 5.5

7. Write a program i to display the multiplication table of a given integer

Example

Input 5

Output 1\*5 =

5

2\*5 = 10

...

...

12\*5 = 60

8. Write a program that allows the user to insert two integers N and M and print the summation of all numbers between N and M.

Example:

input: 5 8.

output: 26.

9. Write a program to find the power of a number. Input

Input base: 2

Input exponent: 5 Output:

$2^5 = 32$

10. Write a program to take 10 numbers from the user and count the odd numbers .

Example:

Input: 5 8 3 11 6 4 2 7 1 9

Output: 6

11. Write a program to take 2 integers from the user and find the Greatest Common Divisor of two numbers.

Example:

Input: 25 15

Output: 5

## **Bounce**

Write a program in C++ to convert a decimal number to a binary number.

Sample Output:

Input a decimal number: 35

The binary number is: 100011

<https://codeforces.com/group/MWSDmqGsZm/contest/219432/problem/I>

<https://codeforces.com/group/MWSDmqGsZm/contest/219432/problem/C>