

ASSIGNMENT 3

BASIC WHILE LOOP

NOTE:

- No need to submit anywhere, just keep track of all the PDF/Code you made in a specific folder like in VS Code
- Compare your solution with the solution I'll provide, in case of doubts, kindly reach out to me after the session

Q1. Count the numbers which are **divisible by 5 but not by 10** between 20 to 240.

Q2. Ask start and end number from user. Calculate the total sum of all the numbers **divisible by 3 and 6 but not 9** from start to end.

Make sure start is always smaller than the end number

Q3. Ask start and end number from user. Print the following below.

Example 1

Enter start number = 1

Enter end number = 13

Output

1 2 3 4 5 6 7 8 9 10 11 12 13

Example 2

Enter start number = 13

Enter end number = 1

Output

13 12 11 10 9 8 7 6 5 4 3 2 1

Q4. Ask a number from user. Print the factorial answer of that number.

Example 1

Enter a number = 5

Output

120

Reason: Factorial of 5 is = $5 \times 4 \times 3 \times 2 \times 1$

Q5. Ask a **single number from user**. Print the multiplication table.

Example

Enter a number = 8

Output

$8 \times 1 = 8$

$8 \times 2 = 16$

$8 \times 3 = 24$

$8 \times 4 = 32$

$8 \times 5 = 40$

$8 \times 6 = 48$

$8 \times 7 = 56$

$8 \times 8 = 64$

$8 \times 9 = 72$

$8 \times 10 = 80$

Q6. Ask a **single number from user**. Print the following.

Example 1

Enter a number = 6

Output

-6 -5 -4 -3 -2 -1 0 1 2 3 4 5 6

Example 2

Enter a number = 10

Output

-10 -9 -8 -7 -6 -5 -4 -3 -2 -1 0 1 2 3 4 5 6 7 8 9 10

Q7. Print the following up to 10 times.

1 2 4 8 16 32 64 128 256 512 (**You can see there are 10 numbers**)