

**The Islamic University of  
Gaza**

**Faculty of Information  
Technology**

**Department of Computer  
Science**



**Fall Semester 2025–2026  
Multimedia Programming I  
Instructor: Aya N.  
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## **Loops**

1- Write a Python Function that take an integer number and then calculates and return the sum of its digits.

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2- Write a Python function that takes an integer number as a parameter and returns the number of digits in that number.

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3- Write a Python function named reverse\_number that takes an integer number as a parameter and returns the reversed number.

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4- Write a Python function named is\_palindrome that takes an integer number as a parameter and returns True if the number is a palindrome, otherwise returns False.

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5- Write a Python function named is\_prime that takes an integer number as a parameter and checks whether the number is a prime number or not.

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6- Write a Python function named get\_factors that takes an integer number as a parameter and returns all the factors of that number.

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7- Write a Python program that prints the following patterns.

a.	<pre>  *  * * * * * * * * * * * * * *</pre>	b.	<pre>***** *</pre>
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8- Write a Python program that keeps asking the user to enter integers , The program should add all positive numbers entered by the user , If the user enters a negative number, the program should stop immediately and print the total sum.

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9- Write a Python program that prints numbers from 1 to 20, but , Skip any number that is divisible by 3 .

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10- Write a Python program that asks the user to enter numbers one by one , Ignore odd numbers , As soon as the user enters an even number greater than 10, print it and stop the program.

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11- Ask the user to enter 10 numbers one by one. Find and display the maximum number.