

# جامعة خنشة

السنة الأولى علوم وتكنولوجيا

كلية العلوم والتكنولوجيا

## امتحان السداسي الثاني (الإجابة النموذجية) : إعلام آلي

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مدة الامتحان: ساعة ونصف

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| <p><b>Exercise 1 (5 points):</b><br/>Write a python that accepts a number from the user and compute the sum of all even numbers from 0 till this number.</p> <p><b>Example :</b></p> <p>N = 19</p> <p>Sum = 2+ 4+6+8+10+12+14+16+18 = 90</p> | <p><b>Solution 1 (5 points) :</b></p> <pre>x = int( input ( 'Enter a number : ' ) ) sum = 0 for i in range (x):     if i % 2 == 0:         sum+=i print('som = ', sum)</pre>                                       |
| <p><b>Exercise 2 (5 point)</b><br/>Write a program that reads a sequence of 50 integers, and then displays the number of occurrences of the number 7.</p>  | <p><b>Solution 2:</b></p> <pre>occ_saven = 0 for i in range 50:     num = int ( input ( 'Enter a number : ' ) )     if num == 7:         occ_saven += 1 print ( 'Occurrence of saven = ', occ_saven )</pre>        |
| <p><b>Exercise 3 (5 point):</b><br/>Write a program that prints all odd numbers in a list.<br/>Example:<br/>List = [3 , 6, 9, 14, 29, 35, 46] the program must print the values: 3, 9, 29 and 35.</p>  | <p><b>Solution 3 (5 points) :</b></p> <pre>list = [1,3,5,7,8, 13, 26] for i in list:     if i%2 == 1:         print(i)</pre>   |
| <p><b>Exercise 4 (5 points) :</b><br/>Write a Python program to read a square matrix and print the sum of each line in the matrix.<br/><b>Example:</b><br/>mat = [[1,2,3][4,5,6][7,8,9]],<br/>the resulted is :</p> <p>6<br/>15<br/>24</p>   | <p><b>Solution 4 (5 points):</b></p> <pre>list = [[1,2,3],[4,5,6],[7,8, 9]] for i in range (len(list)):     sum = 0     for j in range (len(list)):         sum += list [i][j]     print ( 'The sum =', sum)</pre> |

بالتوفيق