

National University



Of Computer & Emerging Sciences Chiniot - Faisalabad Campus

CL-1002 Programming Fundamentals Lab # Task Week1

Objectives:

• Exhibit the understanding of pseudocode.

Note: Carefully read the following instructions (Each instruction contains a weightage)

- 1. Use proper font family and font size of heading, sub heading and normal text.
- 2. First think about statement problem then write/draw your logic on copy.
- 3. Write pseudocode of every task on page.
- 4. Submit the tasks in next lab
- 5. Do not copy from any source otherwise you will be penalized with negative marks.

Problem: Write pseudocode of following programs

- 1. Write a program logic that calculates the total of a retail sale. The program should ask the user for the following: the retail price of the item being purchased and the sales tax rate. Once the information has been entered the program should calculate and display the following: the sales tax for the purchase and the total sale.
- 2. Write the steps to calculate the percentage of student marks based on Math, Science, English, and Urdu. (Percentage = (Obtained / Total) * 100)
- 3. A brand offered 10% discount on each shirt purchased. Take the original price of shirt from user, find the discounted price of one shirt. Write the pseudocode for this problem statement.
- 4. Write a program that take marks of three students in a class, and calculates the average marks of that class.
- 5. Write pseudocode to add bonus of 100\$ to each person whose salary is greater than 1500\$.
- 6. Write a pseudocode to check whether a number is even or odd.
- 7. Write pseudocode to check whether a character is Vowel or Consonant.
- 8. Write pseudocode to that year input from user and check whether it's Leap Year or Not (year exactly divided by 4 is leap year, like 2000, 2004, 2008 etc)
- 9. Write pseudocode to read the age of a candidate and determine whether it is eligible for casting his/her own vote or not. Eligibility (age >= 18)
- 10. Write pseudocode to read the total marks of student and determine the grade of student

Total marks greater than 80, grade is A+

Total marks greater than 75, grade is A



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Total marks greater than 70, grade is B

Total marks greater than 65, grade is C

Total marks greater than 60, grade is D

Total marks greater or equal to than 50, grade is E

Otherwise, grade is F

11. Write a pseudocode to take weather and determine the condition of weather on the following conditions:

Weather is greater than 45, WARM

Weather is greater than 20, NORMAL

Weather is less than or equal to 20, COOL

Otherwise, False input

Best of Luck

