



**National Vocational & Technical Training Commission**  
Institute of Electrical, Electronics and Computer Engineering  
University of the Punjab



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**Artificial Intelligence C1 & C2**  
**Assignment 01 : 28/05/2023**  
**Module 1 : Week 1**

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*Submission Requirements: Please upload your codes in PDF File on Google Classroom in the relevant Assignment section.*

*Note: Plagiarism is a serious violation. Zero marks will be awarded in case plagiarism is found.*

**Task 1:** Write a program to find maximum between two numbers.

**Task 2:** Write a program to find maximum between three numbers.

**Task 3:** Write a program to check whether a number is negative, positive or zero.

**Task 4:** Write a program to check whether a number is divisible by 5 and 11 or not.

**Task 5:** Write a program to check whether a number is even or odd.

**Task 6:** Write a program to input any alphabet and check whether it is vowel or not.

**Task 7:** Write a program to input day number of a month (31 days) and print the number of week (1,2,3,4).

**Task 8:** Write a program to input month number and print number of days in that month.

**Task 9:** Write a program to give the name of the day when given the number of day in a week.  
e.g., User enters 1, answer comes "Monday" and son on to 7.

**Task 10:** Write a program to input marks (out of 100 each) of five subjects Physics, Chemistry, Biology, Mathematics and Computer. Calculate percentage and grade of each subject according to following:

Percentage  $\geq 90\%$  : Grade A

Percentage  $\geq 80\%$  : Grade B

Percentage  $\geq 70\%$  : Grade C

Percentage  $\geq 60\%$  : Grade D

Percentage  $\geq 40\%$  : Grade E

Percentage  $< 40\%$  : Grade F

**Task 11:** Write a program to input electricity unit charges and calculate total electricity bill according to the given condition:

For first 50 units Rs. 0.50/unit

For next 100 units (i.e., 51 to 150) Rs. 0.75/unit

For next 100 units (i.e., 151 to 250) Rs. 1.20/unit

For units above 250 Rs. 1.50/unit

An additional surcharge of 20% is added to the bill