

**GLS UNIVERSITY**  
**FACULTY OF COMPUTER APPLICATIONS & INFORMATION TECHNOLOGY**  
**SUBJECT: 0301102 Logic Development & Programming**  
**BCA Sem – I**  
**Practical Assignment – Unit - III\_Part\_1**  
**Date of Assignment: 11/09/2022**

1. Create a program to find maximum of two numbers.
2. Create a program to find minimum of two numbers.
3. Create a program to find maximum of three numbers.
4. Create a program to find given number is odd or even.
5. Create a program to check given number is positive, negative or zero.
6. Create a program to check if the entered alphabet is a vowel or consonant.
7. Create a C program to enter a numeric value between 1 to 12 and give its corresponding month name.
8. Create a program to give Net Salary to employee.  
Read basic salary from the user,  
i. If Salary  $\geq$  25000 then HRA:15%, DA: 25%  
ii. If Salary  $\geq$  20000 and salary  $<$  25000 then HRA:10%, DA: 15%  
iii. If Salary  $\geq$  10000 and salary  $<$  20000 then HRA: 8%, DA:12%  
iv. If Salary  $<$  10000 then HRA: 5%, DA:10%  
To calculate the Net Salary, formula is:  
Net Salary=Basic salary + HRA + DA
9. Write C program to find if a given year is a leap year or not.
10. Write C program to enter percentage of a student. According to percentage, display grades.
11. Write a C program to check whether user entered alphabet is vowel or consonant.
12. Write a C program to check whether a number is divisible by 5 and 11 or not.
13. Write a C program to check whether a character is alphabet or not.
14. Write a C program to input any character and check whether it is alphabet, digit or special character.
15. Write a C program to check whether a character is uppercase or lowercase alphabet.
16. Write a C program to input month number and print number of days in that month using switch case.
17. Write a C program to input marks of five subjects Physics, Chemistry, Biology, Mathematics and Computer. Calculate percentage and grade 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

18. Write a C program to input basic salary of an employee and calculate its Gross salary according to following:  
Basic Salary  $\leq$  10000 : HRA = 20%, DA = 80%  
Basic Salary  $\leq$  20000 : HRA = 25%, DA = 90%  
Basic Salary  $>$  20000 : HRA = 30%, DA = 95%
19. Write a C 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 Rs. 0.75/unit  
For next 100 units Rs. 1.20/unit  
For unit above 250 Rs. 1.50/unit  
An additional surcharge of 20% is added to the bill
20. Write a C program to create Simple Calculator using switch case. Use Arithmetic operator
21. Write a C program to print day of week name using switch case.
22. Write a C program to find maximum between two numbers using switch case.