

# National College of Computer Studies (NCCS)

## BIM Second Semester: Structure programming lab assignment 3

1. Write a program to determine whether a person is eligible to vote.
2. WAP to enter any character. If the entered character is in lower case then convert it into upper case and if it is a lower case character then convert it into upper case.
3. WAP to enter a character and then determine whether it is a vowel or not.
4. WAP to test whether a number entered is positive, negative or equal to zero.
5. A company decides to give bonus to all its employees on the occasion of Dashain. A 5% bonus on salary is given to male workers and 10% bonus is given to the female workers. WAP to enter the salary and gender of the employee. If the salary is less than 10000 then the employee gets an extra 2% bonus on salary. Calculate the bonus that has to be given to the employee and display the salary that the employee will get.
6. WAP that accepts the current date and date of birth of the user. Then calculate the age of the user and display it on the screen.
7. WAP that asks the user to enter his/her marks of 5 subjects and print the corresponding grade using if else if.
  - $100 - 80 = A$
  - $79 - 60 = B$
  - $59 - 50 = C$
  - $49 - 40 = D$
  - $< 40 = F$
8. WAP that reads a year from a user & find the year is leap year or not.
9. WAP to calculate electricity bill based on the following information.

Consumption unit	Rate of Charge
0-150	Rs. 3 per unit
151-350	Rs. 100 plus Rs. 3.75 per unit exceeding 150 units
351-450	Rs. 250 plus Rs. 4 per unit exceeding 350 units
Above 450	Rs 300 plus Rs 4.25 exceeding 450 units

10. WAP that print the day depending upon number inputted by the user. (If input is 1 print Sunday and so on.)
  - Using if..else..if
  - Using Switch case
11. WAP to calculate:  
Sum  
Difference  
Multiplication  
Division  
of two numbers by reading the user's choice. Use if..else..if and switch case also.

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12. WAP to read annual salary of an employee and declare the tax & print the actual amount received by the employee using if else if ladder.
- Upto 400000 = 1%
  - above 400000 and upto 500000 = 10%
  - Above 500000 = 20%
13. WAP to read a character and check if it is alphabet, digit or special character.
14. WAP to enter a character and then determine whether it is a vowel or not using switch case.