National College of Computer Studies (NCCS)

BIM First Semester: Structure programming lab assignment 1

- 1. Write a program that can calculate area and circumference of the circle. $\diamond \diamond = \diamond \diamond \diamond \diamond \diamond^2$ and $\diamond \diamond$
- = 2��r 2. Write a program to calculate volume of a box. Accept height, width and length from user. (volume= length*breadth*height).
- 3. Write a program that accept two numbers and calculates their addition, subtraction, multiplication, division and modulus. And display all the result on screen.
- 4. Write a program to accept amount from user and add 5% tax on it and display the total amount.(if user enter 100 then add 5% and display 105 as a result).
- 5. Write a program that accept dollar from user and calculate the equivalent Nepalese rupees and display the result.
- 6. Write a program that accepts three number and display the average.
- 7. Write a program that accept the selling price of an item in Supermarket in Indian Currency and display the selling price of the item in Nepali currency.
- 8. Read a character data and display its ASCII value.
- 9. Read a 3 digit number and find the sum of the three digits.
- 10. Read weight in gram and display how many kilogram and gram are there.
- 11. Read two variables and swap the data between two variables.
- 12. Write a program (WAP) to calculate the square root of the number inputted by user. 13. Write a program that receive a number from user, convert it into degree and calculate its correspondent sin, cos and tan value. [degree=number*(pi/180)]
- 14. WAP to convert temperature in centigrade into Fahrenheit. [note: F=(C*1.8)+32 and C=(F

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- 15. WAP to convert meter into centimeter.
- 16. WAP to convert hours into minute, minute into second.
- 17. WAP to convert Rupees into Dollars.
- 18. WAP to find square and cube of the given number.
- 19. WAP to read base and height of a triangle and calculate the area of it.[area=1/2*b*h] 20. WAP to read three sides of a triangle and calculate the area. [area=√ (s(s-a)(s-b)(s-c)) where a, b and c are the sides of a triangle].s=(a+b+c)/2
- 21. WAP to ask number of quantities and price per quantity then find total price. 22. WAP to read mark price of radio and find discount which is 30% of mark price then find the actual selling price of radio.
- 23. WAP to read basic salary then find tax and allowance, tax is 20% of basic salary and allowance is 40% of basic salary. Also find out net salary.
- 24. WAP to read the age of three people and then find average age.
- 25. WAP that asks the student marks obtained in 5 subjects. Display the marks as well as total marks obtained and percentage assuming full marks is 100.

