C Assignments Ganesh zambare

ASSIGNMENT 2 SELECTION I (if else if)

1. Write a program to accept two numbers and display division of the two numbers. Check for divide by zero error. If divider is zero then display appropriate error message with three beeps.

- 2. Input a number and display whether number is Even or Odd.
 - a. Using arithmetic operator
 - b. Using bitwise operator
- 3. Write a program to accept a 5 digit number and check whether it is a numeric palindrome. (If reversed number is same as entered number it is called palindrome.)
- 4. Write a program to accept number and check whether the number is +ve, -ve and zero.
- 5. Write a program to find maximum of two numbers using
 - a. If else
 - b. conditional operator.
- 6. Write a program to find maximum of three numbers using
 - a. If else
 - b. conditional operator.
- 7. Write a program to display number of days in the given year. Check condition for leap year. A year is a leap year if it is divisible by 4 but not by 100, except that years divisible by 400 are leap years.
- 8. Write a program that will calculate the price for a quantity entered from the keyboard, given that the unit price is Rs 5 and there is a discount of 10 percent for quantities over 30 and a 15 percent discount for quantities over 50.
- 9. Write a program to display number of days in the given month and year using
 - a. Sequence of 12 If else if statement
 - b. If else if statement and || operator
- 10. Write a program to accept a character and decide whether input character is vowel or not.
- 11. Write a program to accept a character *c* and display category of the input character. Categories are: uppercase, lowercase, digit, octal, hex, alphabet, alphanumeric, printable, control and other.
- 12. Write a program to accept a point in Cartesian co-ordinate system and decide the quadrant in which the point lies. Also check for special cases point lies on $\pm x$ axis, $\pm y$ axis, origin.

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13. Write a program to accept a hexadecimal digit (in character from '0' to '9' and 'A' to 'F') and calculate numeric equivalent of the char. Using

- a. Arithmetic operators
- b. Bitwise operators
- 14. Write a program to accept a hexadecimal digit value (in decimal format i.e. 0 to 15) and calculate ASCII equivalent of the char. Using
 - a. Arithmetic operators
 - b. Bitwise operators
- 15. Write a program to accept a character from user. If use enters an alphabet, Set 5th bit of given character and print the character. Observe results.
- 16. Write a program to accept a character from user. If use enters an alphabet Reset, (Clear) 5th bit of given character and print the character. Observe results.
- 17. Write a program to accept a character from user. If use enters an alphabet Toggle 5th bit of given character and print the character. Observe results.
- 18. Write a program to convert a BCD number to HEX number. Check the input is valid BCD number.
- 19. Write a program to check parity of given character. If parity is odd, make it even.

ASSIGNMENT 2 SELECTION II (switch case)

- 1. Write a program to Display menu for favorite color.
 - 1: red
 - 2: green
 - 3: blue

Ask user to enter choice [1...3]

Display users for favorite color as per choice in text.

- 2. Write a program for four function calculator. Four functions are +, -, *, /
- 3. Write a program to display number of days in the given month and year.
- 4. Write a program to display day of week from given date (day, month and year).
- 5. Write a program to accept a point in Cartesian co-ordinate system and decide the quadrant in which the point lies. Check for special cases point lies on $\pm x$ axis, $\pm y$ axis, origin.

ASSIGNMENT 2 SELECTION ©

- Write a program to round a floating point number up to 1, 2, 3 places as per user's choice.
- Write a program to find maximum of two numbers without using if else or ternary operator.

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