PRACTICAL 2 - DECISION MAKING AND BRANCHING STATEMENTS

1. Write a C program that accepts a year and finds whether year entered is a leap year or not.
2. Write a C program that accepts an age of a person and finds whether he/she is eligible to vote or not and he/she is eligible to drive or not.
3. Write a C program to check whether number entered is odd or even.
4. Write a C program to check whether number entered is divisible by 3 or not.
5. Write a C program to check whether number entered is divisible by 7 or not.
6. Write a C program to check whether number entered is divisible by 3 or 5 or both.
7. Write a C program to check whether number entered is positive, negative or zero.
8. Write a C program to check greater among two numbers.
9. Write a C program to check greater among three numbers.
10. Write a C program to read marks for a student from user and grade the student according to the following

Marks Grades

Above 80 O

70-79 A+

60-69 A

55-59 B+

50-54 B

45-49 C

40-45 D

Below 40 Fail

1. Write a C program to compute the roots of a quadratic equation ax2+bx+c=0

The roots are given by equation. (-b±√b2-4ac)/2a

1. BEST power distribution company charges its domestic consumers as follows: Consumption Units Rate

0-100 Rs. 100

101-200 Rs.100+Rs. 5 per unit above 100 units

201-400 Rs.200+Rs.10 unit above 200 units

401-600 Rs.250+Rs.15 per unit above 400 units

601& above Rs.300+Rs.20 per unit above 600 units

Write a C program to read customer number and power consumed and prints the amount to be paid by the customer.

1. The admission to a professional course if marks in subjects are as follows:

If marks in Maths >= 60 and marks in Physics >= 60 marks in Chemistry >= 60 and total in all 3 subjects >=200 or total in Maths and Physics>=150.

Write a C program to accept marks out of 100 for 3 subjects and finds the candidate is eligible or not.

1. Write a C program to enter month number between 1 and 12 and print the correct month name otherwise print the appropriate error message.
2. Write a C program to enter week day number between 1 and 7 and print the correct week day name otherwise print the appropriate error message.
3. Write a C program to perform any one of operations mentioned below by taking choice as character:

A - Addition of two numbers

B – Subtraction of two numbers

C - Multiplication of two numbers

D - Division of two numbers

E –Mod between two numbers

Otherwise display the error message.

1. Write a C program for the menu driven which perform any one operation specified below.

1. Check whether no. is odd or even.

2. Check whether no. is +ve, -ve or 0.

3. Check whether no. is divisible by 5 or not.

Otherwise display the appropriate error message.

1. Write a C program to find area or perimeter of a rectangle by asking choice from user.
2. Write a C program to find square of a number or cube of a number by asking choice from user.
3. Write a C program to read two numbers from the user and read the choice between 1 & 3 and do the following:

1. Greater among of two numbers

2. Smallest among of two numbers