
Assignment – Basic Programs

Q1) Take values of length and breadth of a rectangle from user and check if it is square or not.

Q2) Check if it is a positive number, negative number or equal to zero using nested if-else.

Q3) A school has following rules for grading system:

- a. Below 25 - F
- b. 25 to 45 - E
- c. 45 to 50 - D
- d. 50 to 60 - C
- e. 60 to 80 - B
- f. Above 80 - A

Ask user to enter marks and print the corresponding grade.

Q4) Create a calculator using if-elif-else – enter 1 for addition, 2 for subtraction, 3 for multiplication, 4 for division of two numbers.

Q5) Find the maximum of three numbers using if-elif-else.

Q6) Ask user if they want to find the area of a triangle, square or rectangle. Find the area of whichever they ask for.

Q7) Swap two numbers using another variable.

Q8) A student will not be allowed to sit in exam if his/her attendance is less than 75%.

Take following input from user:

Number of classes held

Number of classes attended.

And print:

percentage of class attended

Is student is allowed to sit in exam or not.

Q9) Check if a number is even or odd.

Q10) Convert miles to kilometres using the following formula:

$\text{conv_fac} = 0.621371$

$\text{kilometers} = \text{miles} / \text{conv_fac}$