**Topic 1: Variable declaration, data types, Formatted input and output functions, operators and expressions.**

Program 1: WAP to print “hello world” on screen.

Program 2: WAP to perform various arithmetic operations.

Program 3: WAP to calculate simple interest.

Program 4: WAP to calculate average of two numbers.

Program 5: WAP to convert Centigrade temperature to Fahrenheit and vice versa.

**Topic 2: Operators(modulus operator, logical operators, conditional(ternary) operator) and expressions**

Program 1: WAP to calculate area and circumference of circle.

Program 2: WAP to show swapping of two numbers.

Program 3: WAP to show use of relational operators and logical.

Program 4: WAP to find the greatest of 2 numbers using conditional(ternary) operator.

Program 5: WAP to find whether number is positive or negative using conditional(ternary) operator.

Program 6: WAP to ask the value of y from user and show following conditions using conditional(ternary) operator.

y+1 if y>0

x= 10 ify=0

y\*4 if y<0

**Topic 3: Decision making(if, if-else, nested if-else), Control transfer(goto, break, continue) and switch statements**

Program 1: WAP to show greatest of 2 or 3 numbers using if-else.

Program 2: WAP to find that year entered is leap year or not using if-else.

Program 3: WAP to find the number is even or odd using if-else.

Program 4: WAP to show following conditions using nested if else statement:

gender: male salary>10000 then bonus should be 1000

salary <10000 and >5000, then bonus=500

salary <5000, then bonus=100

gender:female salary>10000 then bonus should be 100

salary <10000 and >5000, then bonus=50

salary <5000, then bonus=10

Program 5: WAP to calculate roots of a quadratic equation.

Program 6: WAP using switch statement, asking the user to enter any number(1-7). If the user has entered 6 or 7 then display a message saying “enjoy! Its holiday”, else display a message saying “so sad, u still have to work”, showing use of break statement also.

Program 7: Write a menu driven program using switch case to do different arithmetic operations, showing use of break statement also.