**Basic**

1. Program to Find Area of Square and Circumference of a Circle
2. Program to Find Area of a Triangle using Hero Formula
3. Simple Interest
4. Compound Interest
5. Program to Convert Temperature from Degree Centigrade to
6. Fahrenheit
7. Program to Find Sum and Average of Three Real Numbers
8. Program to Calculate the Net Salary (Enter the basic salary. DA is 10% of basic Salary, HRA is 30% of Basic salary, Medical is 20% of Basic Salary and Travel allowance is 15% of basic salary so calculate Net salary)
9. Program to Swap Values of Two Variables Without using Third Variable
10. Program to Swap Values of Two Variables by using Third Variable
11. Program To find sum of the digits of the 3 digit no without loop
12. \*Program to Convert Time in Seconds to Hours Minutes and Seconds

**IF-ELSE & Switch**

1. To check weather Number is even or Odd
2. check weather no is positive, negative or zero
3. Switch to tell days of the week(mean 1 for Monday, 2 for Tuesday ……. 7 for sunday)
4. Second Largest no out of 3 (Nested If-else)
5. Changer Lowercase to Upper Case and vice-versa
6. Check weather character is vowel or not
7. Leap Year using Nested If-Else
8. Provide Remarks according to grade using Switch case (take the grade from user like A, B , C,D,F and remarks for A is Outstanding, B excellent , C Good, D- Average need to work hard, F – fail)
9. Calculator using switch (1.Addation\n 2.Subtraction \n 3.Multiplication \n 4.Divide&quot;))
10. Write A Menu Driven Program To Convert Fahrenheit Temperature to Centigrade Or Centigrade To Fahrenheit Temperature. (1.Convert C to F \n 2.Convert F to C )

**Loops**

1. Sum of first 10 numbers.
2. Fibonnaci series
3. Factorial of a number
4. to find sum of the digits of the no.
5. To reverse the Number (1234 🡪 4321)
6. /\*Write A Menu Driven Program which has following operations:
   1. Factorial of a number
   2. Prime or not
   3. Odd or Even
   4. d)Exit.\*/
7. Distribute grades to the students (Use of Loop &amp; IF-Else) (Enter 5 subjects number using loop then provide the grade based on total of those numbers)

Print Pattern

1. \*

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1. \*\*\*\*\*

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1. \*

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1. \*

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Now Print all above pattern with increasing Numbers for eg

1. 1

2 3

4 5 6

7 8 9 10

1. 1

1 1

1. 1
2. 1

2 3 2

3 4 5 4 3

4 5 6 7 6 5 4

5 6 7 8 9 8 7 6 5

**FUNCTION AND POINTERS PROGRAMS**

1. Write A Menu Driven Program using function which has following function:

a) Factorial of a number

b) Prime or not

c) Odd or Even

d) Exit

1. Write a function to swap 2 variables using call by value and call by reference
2. Create a function to print all prime numbers between two numbers (For eg print all prime numbers between 10 to 80 )
3. Create a function to convert binary number into decimal
4. Create a function to convert decimal number into binary
5. Create a function to convert decimal number to hexadecimal number.

**Recursion Programmes**

1. WAP To find factorial of a number using recursion
2. WAP To print Fibonacci series with recursion
3. WAP To find GCD of two numbers using recursion
4. WAP to find-out LCM of three numbers using recursion
5. WAP to find given number is a palindrome or not using recursion
6. WAP To check number is prime or not using recursion
7. WAP to Reverse the number using recursion

**Array**

1. Crate an array of integer and find out maximum and minimum in that array.
2. Create 2 array. Now create a function to create union of both of array. (Pass both array to function)
3. Create 2 array. Now create a function to create intersection of both of array. (Pass both array to function)
4. Short the array by
   1. Insertion short
   2. Selection short
   3. Quick Short
5. Apply binary search to find an element in shorted array

**Structure**

1. Create a structure name book contains Title, author, price and pages. Now enter 3 books entry. And find books which has maximum number of pages. Also find the book with lowest price.

**String**

1. WAP to Remove all characters that are not alphabets in String.
2. WAP to Count Vowels in given string.
3. Create a function to Concatenate 2 strings
4. Create a function to reverse string.