**Basic Input Output:**

1. Write a program(WAP) to print “Hello World”.
2. WAP to find sum, difference, product of two numbers.
3. WAP to print ASCII value of a given input character.
4. WAP to find the size of different data types on your machine
5. WAP to calculate average of three numbers.
6. WAP to swap two numbers.
7. WAP to swap two numbers without using the third one.

**Using ‘if-else’, ‘switch’ and different operators:**

1. WAP to find greater of two numbers.
2. WAP to find greatest of three numbers.
3. WAP to find if a number is negative or not.
4. WAP to check if number is odd or even.
5. WAP to check if number is prime or not.
6. WAP to check if number is perfect or not.
7. WAP to check if a number is divisible by 5 or not.
8. WAP to check if a character is a alphabet or not.
9. WAP to check if a character is alphanumeric or not.
10. WAP to check if a character is vowel or consonant.
11. WAP to calculate roots of a quadratic equation.
12. WAP to find LCM and HCF of two given numbers.
13. WAP to make a calculator using switch.
14. WAP to find if character is uppercase alphabet, lowercase alphabet, digit or special character using switch.

**Using loops:**

1. WAP to find factorial of a given number.
2. WAP to print numbers from 1 to n using different loops.
3. WAP to print the following pattern up to n lines-  
   \*  
   \*\*  
   \*\*\*  
   \*\*\*\*
4. WAP to print the following pattern up to n lines-  
   \*\*\*\*  
   \*\*\*  
   \*\*  
   \*
5. WAP to print the following pattern up to n lines-  
   1  
   22  
   333  
   4444
6. WAP to print the following pattern up to n lines-  
   1  
   12  
   123  
   1234
7. WAP to print a triangle of stars(‘\*’) up to n lines.
8. WAP to print an inverted triangle of stars(‘\*’) up to n lines.
9. WAP to print first n odd numbers.
10. WAP to count number of digits in a number.
11. WAP to print sum of digits of a number.
12. WAP to check if given string is palindrome or not.
13. WAP to check if a number is Armstrong or not.

**Using functions:**

1. WAP a recursive function to find factorial of a number.
2. WAP a recursive function to find sum of n natural numbers.

**Using Arrays:**

1. WAP to perform print an array with each element double its value.
2. WAP to find largest and second largest in an array.
3. WAP to sort the array using Insertion Sort.
4. WAP to sort the array using Insertion Sort recursively.
5. WAP to sort the array using Selection Sort.
6. WAP to sort the array using Bubble Sort.
7. WAP to sort the array using Bubble Sort recursively.
8. WAP to sort the array using Merge Sort.
9. WAP to sort the array using Merge Sort recursively.
10. WAP to sort the array using Quick Sort.
11. WAP to sort the array using Quick Sort recursively.
12. WAP to merge two sorted arrays.
13. WAP to print a two dimensional array both row-wise and column-wise.
14. WAP to multiply two dimensional arrays.