**Programme : BCA (2022-2025)**

**Course Code : BC-104**

**Course Title : Programming in C**

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**Week 3**

Q1. Write a program to count numbers between 1 to 100 not divisible by 2, 3 and 5.

Q2. Write a program to find the perfect square from 1 to 500.

Q3. Write a program to detect the largest number out of five number and display it.

Q4. Write a program to print the five entered numbers in the ascending order.

Q5. Write a program to display numbers 1 to 100 using ASCII value from 48 to 57. Use the nested loop.

**Week 4**

Q1. Write a program using nested for loops. Print values and message when any loop ends.

Q2. Write a program to accept a number and find sum of its individual digits repeatedly till the result is a single digit.

Q3. Write a program to display the stars as shown below.

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Q4. Write a program to generate the pattern of number as given below.

6 5 4 3 2 1 0

5 4 3 2 1 0

4 3 2 1 0

3 2 1 0

2 1 0

1 0

0

Q5. Write a program to verify the truth table of AND Gate. Assume AND Get has two input bit A and B and output bit C.

**Week 5**

Q1. Write a program to print bytes reserved for various types of data and space required for storing them in memory using arrays.

Q2. Write a program to add even and odd number from 1 to 10. Store them and display their results in two separate arrays.

Q3. Write a program to display names of days of weeks using single –dimension array having length of 7.

Q4. Write a program to display the contents of two arrays. The 1st array should contain the string and 2nd numerical numbers.

Q5. Write a program to sort the numbers in ascending order by comparison method.

**Week 6**

Q1. Write a program to illustrate insert operator with two – dimensional array.

Q2. Write a program to demonstrate delete operation of element with two – dimensional array.

Q3. Write a program to display two – dimensional array elements together with their address.

Q4. Write a program to demonstrate the use of three – dimensional array.

Q5. Write a program to explain the four – dimensional array.

**Week 7**

Q1. Write a program to show how similar variable names can be used in different functions.

Q2. Write a program to calculate the square of a number using user defined function.

Q3. Write a program to send values to user – defined function and receive and display the return values.

Q4. Write a program to send a value by reference to the user – defined function.

Q5. Write a program to use two function as argument for another function.

**Week 8**

Q1. Write a program to display the values of variables and its location using pointer.

Q2. Write a program to print and element and its address using pointer.

Q3. Write a program to add two numbers through variables and their pointers.

Q4. Write a program to show the effect of increment and decrement operators used as prefix and suffix with the pointer variable.

Q5. Write a program to display the sum of square and cubes of array elements using pointers.

**Week 9**

Q1. Write a program to copy structure element from one object to another object.

Q2. Write a program to read and display the car number, starting time and reaching time. Use structure within structure.

Q3. Write a program to create an array of structure objects.

Q4. Write a program to declare pointer to structure and display the contents of the structure.

Q5. Write a program to display the examination result of students using bit fields.