

Assignment-3

1. Write a C program to check whether a number is a palindrome or not. CO1

2. Write a C program to print all Prime numbers between 1 to n. CO1

3. Write a C program to print the following star pattern for n values: * CO1

```
  *      *
   *    *
    *  *
     *
    *  *
   *    *
  *      *
 *        *
```

4. Write a C program to print the following number pattern for n values: CO1

```
1
123
12345
1234567
123456789
1234567
12345
123
1
```

5. Write a C program to print the following number pattern for n values: CO1

```
*****
**      **
* *    * *
*  *  *  *
*   **   *
*   **   *
*  *  *  *
* *    * *
**      **
*****
```

Assignment-3

6. Write a C program to convert numbers into words using switch statement and while loop. (Eg: 1234 = one two three four) CO1
7. Write a C program to take a user input n and print all possible three-digit combinations whose sum of digits is equal to n. (Take the value of n between 1 and 27) CO1
8. Write a C program to print all the integers and their sum between 1 and 500, that are divisible by a user-provided value n. CO1
9. Write a C program to find the total occurrence of all digits in a user-provided number. CO1
10. Write a C program to create a number guessing game using do-while loop. A random number between 1 and 100 should be generated by the program each time. The user should be prompted to enter a value and guess the number within 10 tries. On wrong guesses, appropriate hints should be given on whether the number should be larger or smaller. CO1