Program Set 3

Dates: 28.11.2022 - 02.12.2022

- 1. Write a program to find the product of numbers from 1 to 20.
 - a. Use while
 - b. Use for
 - c. Use do-while
- 2. Write a program to find the sum of all even numbers and sum of all odd numbers between 600 and 800 separately.
- 3. Check if a given number is prime or not.
- 4. Reverse a given three digited number and check if the number is palindrome. (Eg. 121, 393)
- 5. Calculate the power of a number, without using pow. Use loop.
- 6. Write a program to print out all Armstrong numbers between 1 and 500. If sum of cubes of each digit of the number is equal to the number itself, then the number is called an Armstrong number. For example, 153 = (1 * 1 * 1) + (5 * 5 * 5) + (3 * 3 * 3)
- 7. Generate the following patterns
 - a. 1 22 333 4444 55555
 - b. 55555 4444 333 22
 - c. 1 12 123 1234 12345
 - d. 1 2 2 3 3 3 4 4 4 4 4 5 5 5 5 5 5 5