School of Computing and Data Science Sai University

Practice Set 2: C++ Basics

- 1. Write a program to print numbers from 1 to 10 using a for loop.
- 2. Print the first 10 even numbers using a while loop.
- 3. Print the multiplication table of a given number using a do-while loop.
- 4. Find the sum of the first N natural numbers (input N) using a for loop.
- 5. Write a program to find the factorial of a number using a while loop.
- 6. Print the digits of a number in reverse order using a do-while loop.
- 7. Check whether a number is prime or not using a for loop.
- 8. Print all odd numbers between 1 and 50 using a while loop.
- 9. Write a program that keeps asking the user for input until they enter a negative number (do-while loop).
- 10. Print the sum of all even numbers from 1 to 100 using a for loop.
- 11. Write a program to calculate the power of a number (a^b) using a while loop.
- 12. Use if-else with a loop: Print "Fizz" if a number is divisible by 3, "Buzz" if divisible by 5, and "FizzBuzz" if divisible by both (for numbers 1 to 50).
- 13. Take a number as input and check if it is an Armstrong number using a while loop.
- 14. Write a program to find the largest digit in a number using a do-while loop.
- 15. Print a simple pattern using loops:

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- 16. Use a for loop to check if a number is a palindrome.
- 17. Write a program to find the GCD (Greatest Common Divisor) of two numbers using a while loop.
- 18. Print the Fibonacci sequence up to N terms using a for loop.

- 19. Use if-else inside a for loop to print whether numbers from 1 to 20 are even or odd.
- 20. Write a program to keep taking marks as input until the user enters -1, then print the average of the entered marks.