

Advanced Programming Lab 2

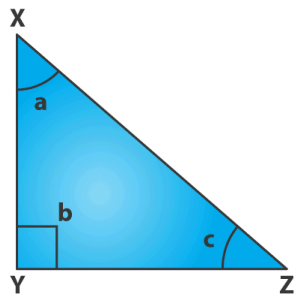
1. Check Prime Number:

- Write a program that checks whether a given number is a prime number. A prime number is greater than 1 (A prime number has no positive divisors other than 1 and itself)
- Bonus points for efficient solutions

2. Check Palindrome Number: Implement a program that checks whether a given number is a palindrome.

3. Simple Calculator: Create a basic calculator program that performs addition, subtraction, multiplication, and division based on user input. Use a switch statement to select the operation.

4. Print Triangle: Develop a program to print a right-angled triangle pattern using a for loop. Allow the user to input the height of the triangle.



5. Star Pattern: Create a program that prints a diamond pattern of stars using nested for loops. Allow the user to input the size of the diamond.

