***Assignment – 2 (IF-ELSE)***

1. Write a program that checks if a number is positive, negative, or zero.
2. Write a program that checks if a number is odd or even.
3. Write a program that checks if a string is a palindrome.
4. Write a program that checks if a year is a leap year.
5. Write a program that calculates the maximum of three numbers.
6. Write a program that checks if a number is prime.
7. Write a program that converts a letter grade to a numerical grade.
8. Write a program that checks if a given password is strong.
9. Write a program that calculates the area of a triangle given its base and height.
10. Write a program that determines if a given year is a leap year according to the Gregorian calendar.
11. Write a program that checks if a given string is a valid email address.
12. Write a program that checks if a given number is a perfect square.
13. Write a program that calculates the factorial of a given number.
14. Write a program that checks if a given number is a multiple of 7.
15. Write a program that checks if a given string is a valid URL.
16. Write a program that checks if a given number is a power of 2.
17. Write a program that calculates the sum of all the numbers in a given list.
18. Write a program that checks if a given number is a Fibonacci number.
19. Write a program that checks if a given string is a valid palindrome.
20. Write a program that checks if a given year is a leap year according to the Julian calendar.