**1. Age Classification:** Write a program that takes a user's age as input and prints whether they are a child, teenager, adult, or senior based on the following conditions:

* Child: age < 13
* Teenager: 13 <= age < 20
* Adult: 20 <= age < 65
* Senior: age >= 65

**2. Grade Evaluation:** Write a program that takes a student's marks as input and prints their grade based on the following scale:

* A: marks >= 90
* B: 80 <= marks < 90
* C: 70 <= marks < 80
* D: 60 <= marks < 70
* F: marks < 60

**3. Login System:** Write a program that takes a username and password as input and prints "Access granted" if they match the pre-defined username and password, otherwise prints "Access denied".

**4. Leap Year Checker:** Write a program that takes a year as input and checks whether it is a leap year. A year is a leap year if it is divisible by 4 but not by 100, except if it is also divisible by 400.

**Loops**

**1. Sum of Natural Numbers:** Write a program to calculate the sum of the first n natural numbers using both a for loop and a while loop.

**2. Prime Numbers:** Write a program to print all prime numbers between 1 and 100 using a for loop.

**3. Pattern Printing:** Write a program to print the following pattern using nested for loops:

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**4. Factorial Calculation:** Write a program to calculate the factorial of a given number using a for loop.

**5. Number Guessing Game:** Write a program where the computer randomly selects a number between 1 and 100. The user has to guess the number, and the program gives hints ("too high", "too low") until the user guesses the correct number. Use a while loop to implement this.