## 1. ****Conditional Statements****

### 🎯 ****Coding Assignments****

1. **Age Category Checker**:  
   Input age and print whether the person is a child (0–12), teenager (13–19), adult (20–59), or senior (60+).
2. **Student Grade Evaluator using Nested if**:  
   Input marks and print grades as:
   * A (90+), B (75–89), C (60–74), D (40–59), F (<40)
3. **Calculator using Switch**:  
   Take two numbers and an operator (+, -, \*, /) as input and perform calculation using switch.

### 💡 ****Interview Theory Questions****

* What is the difference between if, else if, and switch?
* When is switch preferred over if-else?
* Can switch be used with strings in C?

### 💻 ****Interview Coding Questions****

* Write a program to check if a number is positive, negative, or zero using nested if.
* Take 3 numbers and print the largest using if-else.

## 2. ****Iteration Statements (Loops)****

### 🎯 ****Coding Assignments****

1. **Factorial using while loop**
2. **Print multiplication table (1 to 10) using do-while**
3. **Sum of digits of a number using for loop**

### 💡 ****Interview Theory Questions****

* Difference between while and do-while loops.
* When to use for loop vs while loop?
* Can for loop run infinitely?

### 💻 ****Interview Coding Questions****

* Write a program to check if a number is a palindrome using while.
* Write a program to reverse a number using do-while.

## 3. ****Jump Statements****

### 🎯 ****Coding Assignments****

1. **Use** break **to exit loop when number is divisible by 7**
2. **Use** continue **to skip printing even numbers from 1 to 20**
3. **Print numbers until 100 but stop if 42 is entered using** goto

### 💡 ****Interview Theory Questions****

* What is the difference between break and continue?
* Is goto good practice? Why or why not?
* When should break be used in loops?

### 💻 ****Interview Coding Questions****

* Write a program that finds the first prime number greater than 50 using for and break.
* Write a program that prints all odd numbers from 1 to 30 using for and continue.

## Bonus Mixed Challenge: ****"ATM Simulation"****

### Requirements:

* Use switch for options: Check balance, Withdraw, Deposit, Exit.
* Use loops for retrying.
* Use break to exit and continue for invalid inputs.