**1. Pass/Fail Checker**

**Description:**  
Write a program that takes a student's mark as input and prints "Pass" if the mark is 35 or above, otherwise "Fail".

🧠 *Concepts used:* if-else

**🔹 2. Odd or Even Detector**

**Description:**  
Accept a number from the user and print whether it's "Even" or "Odd".

🧠 *Concepts used:* if-else, % operator

**🔹 3. Grade Calculator**

**Description:**  
Accept a mark (0–100) and print grades:

* 90–100: A
* 75–89: B
* 60–74: C
* 35–59: D
* Below 35: Fail

🧠 *Concepts used:* if-else-if ladder

**🔹 4. Simple Menu using switch**

**Description:**  
Create a program to display a menu:

1. Add

2. Subtract

3. Multiply

4. Divide

Perform the selected operation on two numbers.

🧠 *Concepts used:* switch-case, Scanner, arithmetic operators

**🔹 5. Print Numbers from 1 to N**

**Description:**  
Ask the user to enter a number N. Use a for loop to print numbers from 1 to N.

🧠 *Concepts used:* for loop

**🔹 6. Sum of Digits**

**Description:**  
Accept a number and find the **sum of its digits** using a while loop.

🧠 *Concepts used:* while, %, /

**Example:**  
Input: 432 → Output: 4 + 3 + 2 = 9

**🔹 7. Multiplication Table Generator**

**Description:**  
Take an input number and print its **multiplication table** from 1 to 10.

🧠 *Concepts used:* for loop

**🔹 8. Positive Number Validator**

**Description:**  
Use a do-while loop to keep asking the user to enter a **positive number** until they do so.

🧠 *Concepts used:* do-while, input validation

**🔹 9. Skip Multiples of 3**

**Description:**  
Print numbers from 1 to 20, but **skip multiples of 3** using continue.

🧠 *Concepts used:* for + continue

**🔹 10. Stop at 7 using break**

**Description:**  
Print numbers from 1 to 10, but stop printing if the number is 7 (using break).

🧠 *Concepts used:* for + break