1. Find the sum of 10 numbers.

```
BEGIN
        ARR NUMBER num1, num2, … ,  num10
        DISPLAY message = "Enter 10 integers to add"
        INPUT integers, assign integers to the array numbers in order
          IF ARR length != 10, THEN DISPLAY message
          ELSE SUM = num1 + num2 + . . . + num10
        ENDIF
        DISPLAY SUM
END
```
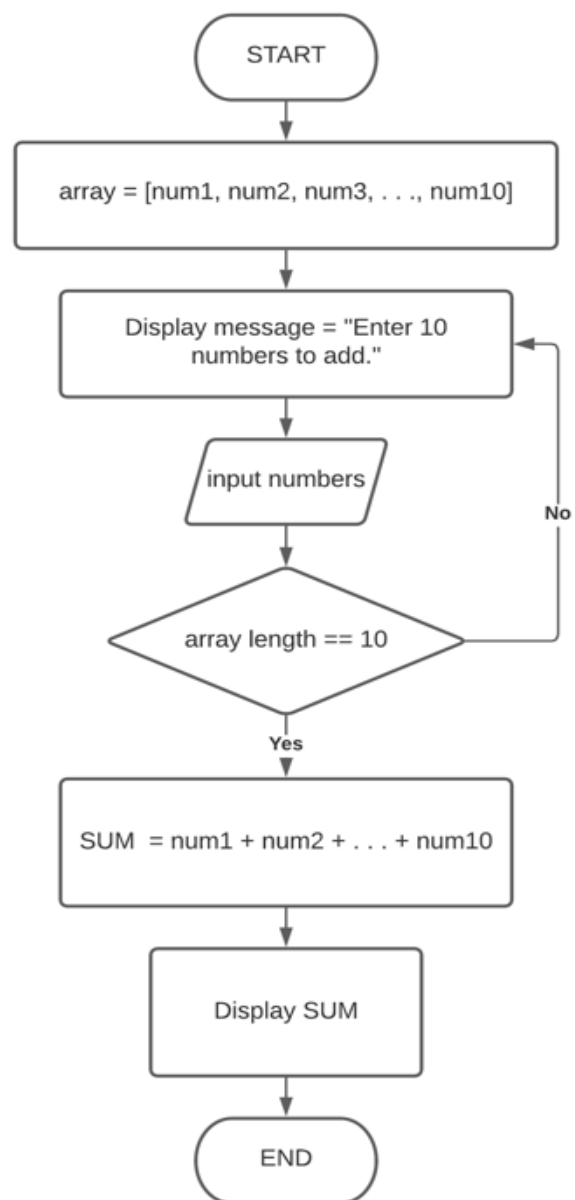
```
                    ┌─────────────┐
                    │    START    │
                    └──────┬──────┘
                           ▼
        ┌──────────────────────────────────────┐
        │  array = [num1, num2, num3, . . ., num10] │
        └──────────────────┬───────────────────┘
                           ▼
          ┌────────────────────────────────┐
          │  Display message = "Enter 10   │◄──┐
          │       numbers to add."         │   │
          └────────────────┬───────────────┘   │
                           ▼                    │
                  ╱─────────────────╲           │
                 ╱  input numbers    ╲          │
                 ╲                   ╱          │
                  ╲─────────────────╱           │
                           ▼                    │ No
                  ◇─────────────────◇           │
                 ╱                   ╲          │
                ◇  array length == 10  ◇────────┘
                 ╲                   ╱
                  ◇─────────────────◇
                           │ Yes
                           ▼
        ┌──────────────────────────────────────┐
        │  SUM  = num1 + num2 + . . . + num10   │
        └──────────────────┬───────────────────┘
                           ▼
              ┌──────────────────────┐
              │     Display SUM      │
              └──────────┬───────────┘
                         ▼
                  ┌─────────────┐
                  │     END     │
                  └─────────────┘
```

2. Login to Facebook account.

BEGIN
    DECLARE
        password, username = null; message = "Login Account"; error =
        "Incorrect password or email. Try again."; loginLimit = 5;
    DISPLAY message = "Login Account";
    IF loginLimit != 0, continue ELSE DISPLAY "Recover Account"
    INPUT password and username;
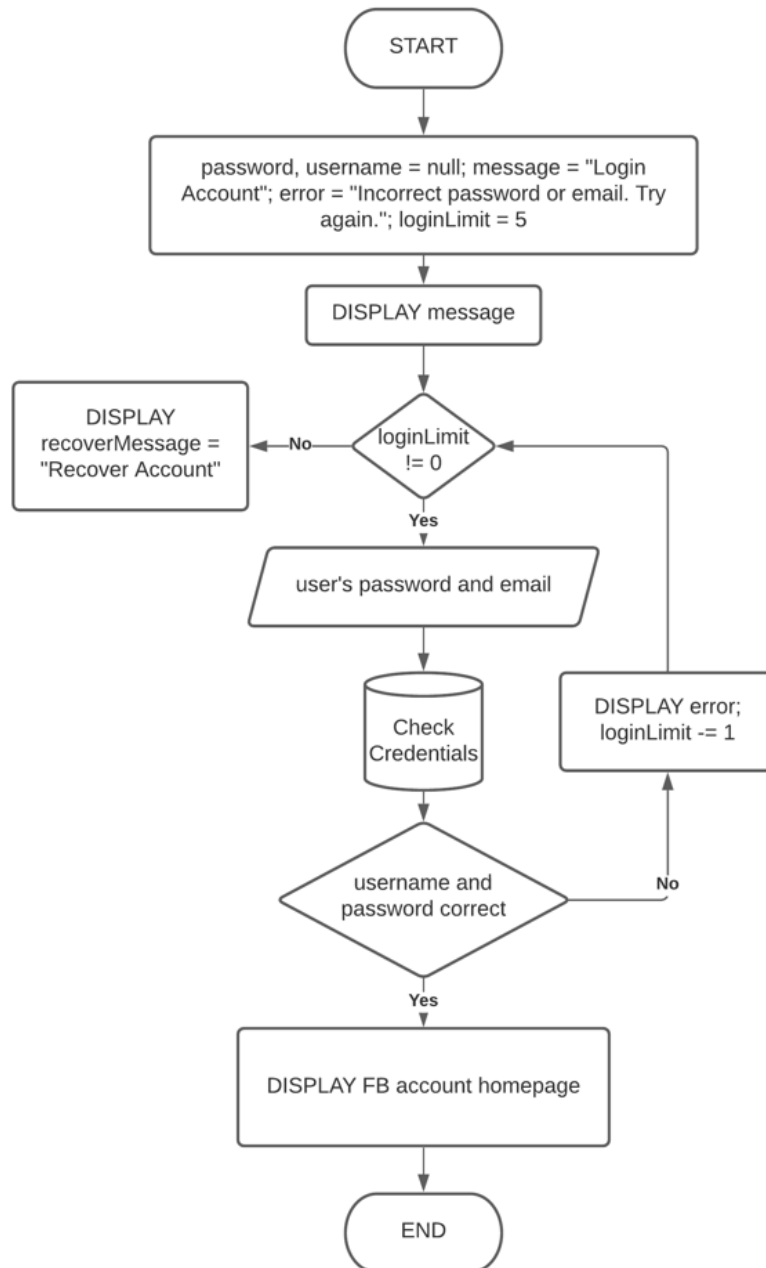   QUERY DB for credentials check;
    IF ((!password || !username) && loginLimit != 0)
        THEN DISPLAY error, loginLimit -= 1;
    ELSE DISPLAY FB account homepage;
    ENDIF
END

3. Flowchart for arithmetic operation
   - Determine what operator to use from the given array string ["Add", "Subtract", "Multiply", "Divide"].

BEGIN
    STRING array = ["Add", "Subtract", "Multiply", "Divide"], operator = " "
    FOREACH item in array
      IF item == "Add", THEN operator = "+"
      IF item == "Subtract". THEN operator = "-"
      IF item == "Multiply", THEN operator = "*"
      IF item == "Divide", THEN operator = "/"
      ELSE return
      ENDIF
      DISPLAY `${item} uses the ${operator} symbol`
    ENDFOREACH
END