

Variables Used:

userinput, ones, tens, hundreds, thousands, tenthousands, reversed  
ARE NUMERIC

Begin:

DISPLAY "Enter a 5-digit number:"

ACCEPT userinput

ones = userInput % 10

// Remainder when using modulo 10 gives us the last digit of an integer

tens = (userinput / 10) % 10

// Integer division by 10^n removes n digits from the right, then use modulo 10

hundreds = (userinput / 100) % 10

thousands = (userinput / 1000) % 10

tenthousands = (userinput / 10000) % 10

// Display each extracted digit

DISPLAY "Ten Thousand's Digit is", tenthousands

DISPLAY "Thousand's Digit is", thousands

DISPLAY "Hundred's Digit is", hundreds

DISPLAY "Ten's Digit is", tens

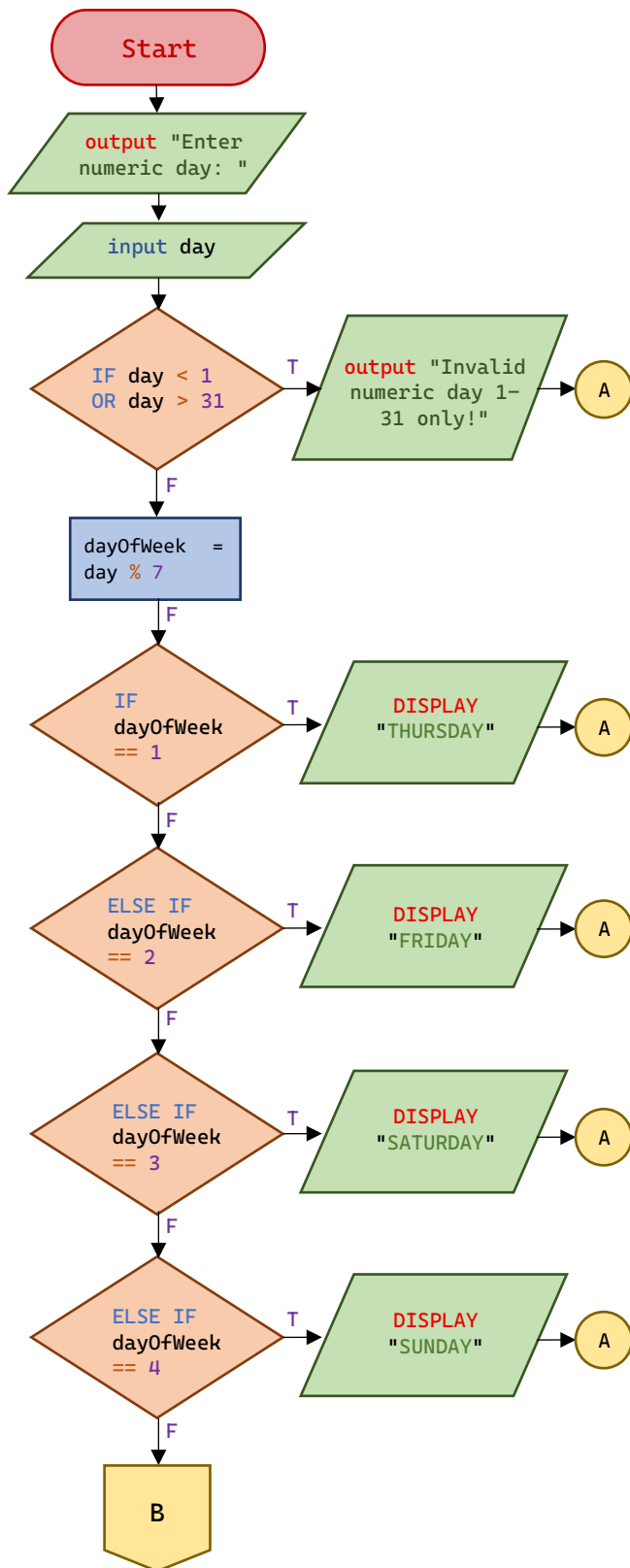
DISPLAY "One's Digit is", ones

// Formula for reversed number

reversed = (ones \* 10000) + (tens \* 1000) + (hundreds \* 100) + (thousands \* 10) + tenthousands

DISPLAY "The reverse order is", reversed

End



Variables Used:

day, dayOfWeek ARE NUMERIC

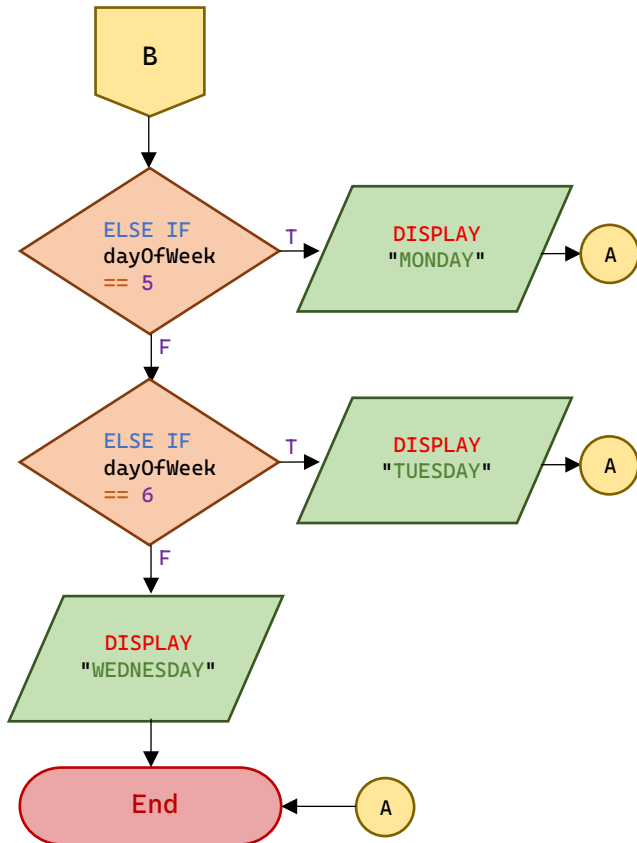
Begin:

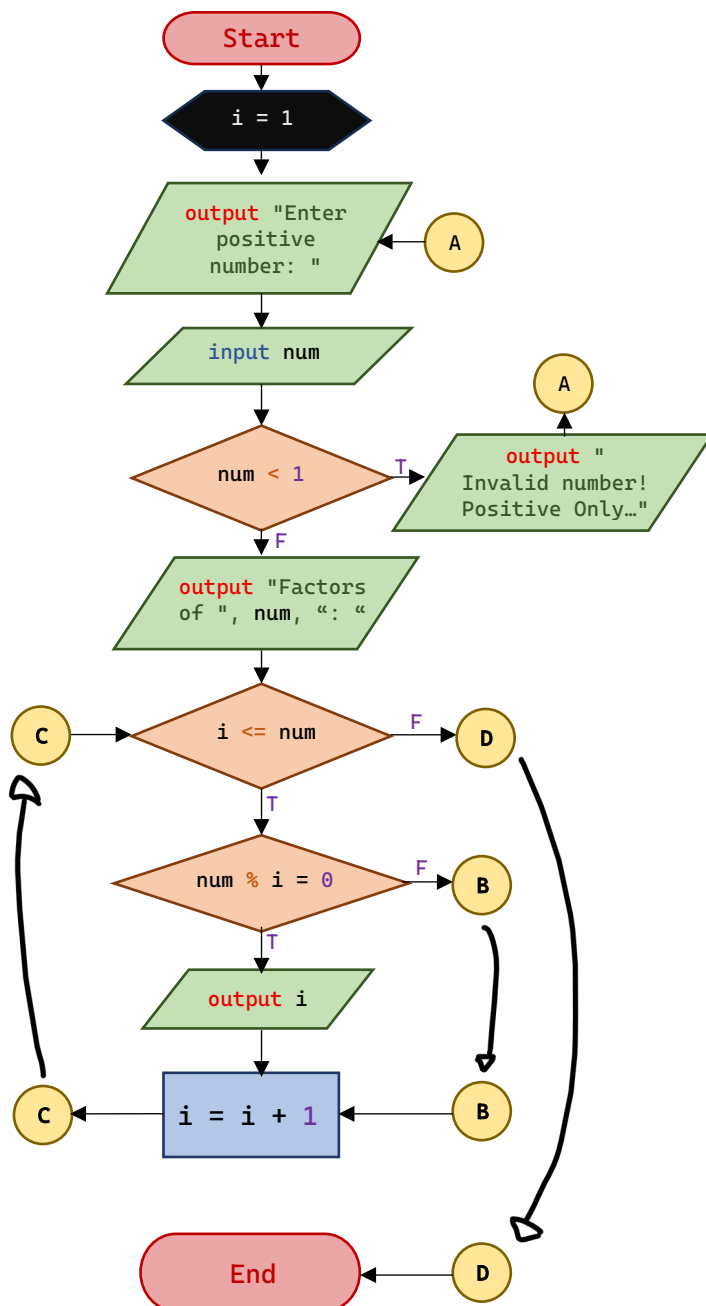
```

    DISPLAY "Enter numeric day: "
    ACCEPT day
    // Check if input is within range
    IF day < 1 OR day > 31 THEN
        DISPLAY "Invalid numeric day 1-31 only!"
    ELSE
        // Make Dec 1 = 1 (Thursday), then mod 7 for weekly cycle
        dayOfWeek = day % 7
        IF dayOfWeek == 1 THEN
            // December 1st falls on (Thursday)
            DISPLAY "THURSDAY"
        ELSE IF dayOfWeek == 2 THEN
            DISPLAY "FRIDAY"
        ELSE IF dayOfWeek == 3 THEN
            DISPLAY "SATURDAY"
        ELSE IF dayOfWeek == 4 THEN
            DISPLAY "SUNDAY"
        ELSE IF dayOfWeek == 5 THEN
            DISPLAY "MONDAY"
        ELSE IF dayOfWeek == 6 THEN
            DISPLAY "TUESDAY"
        ELSE
            DISPLAY "WEDNESDAY"
        ENDIF
    ENDIF
  End
  
```

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Exercise 1

## Problem 2 - Conditional





Variables Used:

num, i ARE NUMERIC

Begin:

```

DISPLAY "Enter a positive number: "

```

```

ACCEPT num

```

```

WHILE num < 1 DO

```

```

  BEGIN

```

```

    DISPLAY "Invalid number! Positive Only..."

```

```

    DISPLAY "Enter a positive number: "

```

```

    ACCEPT num

```

```

  END

```

```

DISPLAY "Factors of ", num, ": "

```

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i = 1

```

```

WHILE i <= num DO

```

```

  BEGIN

```

```

    IF num % i = 0 THEN

```

```

      DISPLAY i

```

```

    END IF

```

```

    i = i + 1

```

```

  END

```

End