8) Prime Numbers:

1) Ask the user to input a number n
2) Set i to 0
3) Repeat this algorithm until $i \leq n$
4) & set i to i+1.
5) If n mod i = 0 then the number is not prime
6) If n mod $i \geq 0$ then number is prime.

Q2 Days.

1) Ask the user to input a number n between 1 and 365.
2) Assume that January 1st is a Monday.
3) Divide n by 7.
4) If num %. 7 = 0, the day is Sunday.
5) If num %. 7 = 1, the day is Monday.
6) If num %. 7 = 2, the day is Tuesday.
7) If num %. 7 = 3, the day is Wednesday.
8) If num %. 7 = 4, the day is Thursday.
9) If num %. 7 = 5, the day is Friday.
10) If num %. 7 = 6, the day is Saturday.

Date:

Q. Find the smallest number among three given variables.

1. START
2. INPUT x, y, z.
3. IF x < y AND x < z THEN
4. PRINT x " is the smallest."
5. ELSEIF y < x AND y < z THEN
6. PRINT y " is the smallest."
7. ELSE PRINT z " is the smallest."
8. ENDIF
9. END.

Q. Basic Calculator:

1. START
2. INPUT x, y
3. INPUT operator
4. IF y ≠ 0 THEN
5. IF Operator = "*" THEN
6. ans = x * y
7. PRINT ans
8. ELSEIF operator = "/" THEN
9. ans = x / y
10. PRINT ans
11. ELSE PRINT "Invalid operator"
12. ENDIF
13. ELSE PRINT "Add a non-zero number"
14. ENDIF
15. END