Experiment No. 7

Input Specification: num the decimal number to be converted to binary as int

Output Specification: bin the long int to store binary equivalent to decimal number

Declaration:

num = to store input decimal munber as int

n = to store decimal number temporary as int

r = to store remainder as int

m = store partial binary result as long int

bin = to store binary equivalent of input as long int

Algorithm:

Step1: Start

Step 2: Declare mun, n, r as int and bin=0, m=1 as long int

Step 3: Print message to input decimal number and store them in num

Step 4: n = num

Step 5: Check if n != 0 then goto step 6 otherwise goto step 10

Step 6: Calculate r= n%2

Step 7: Calculate bin = m*r + bin

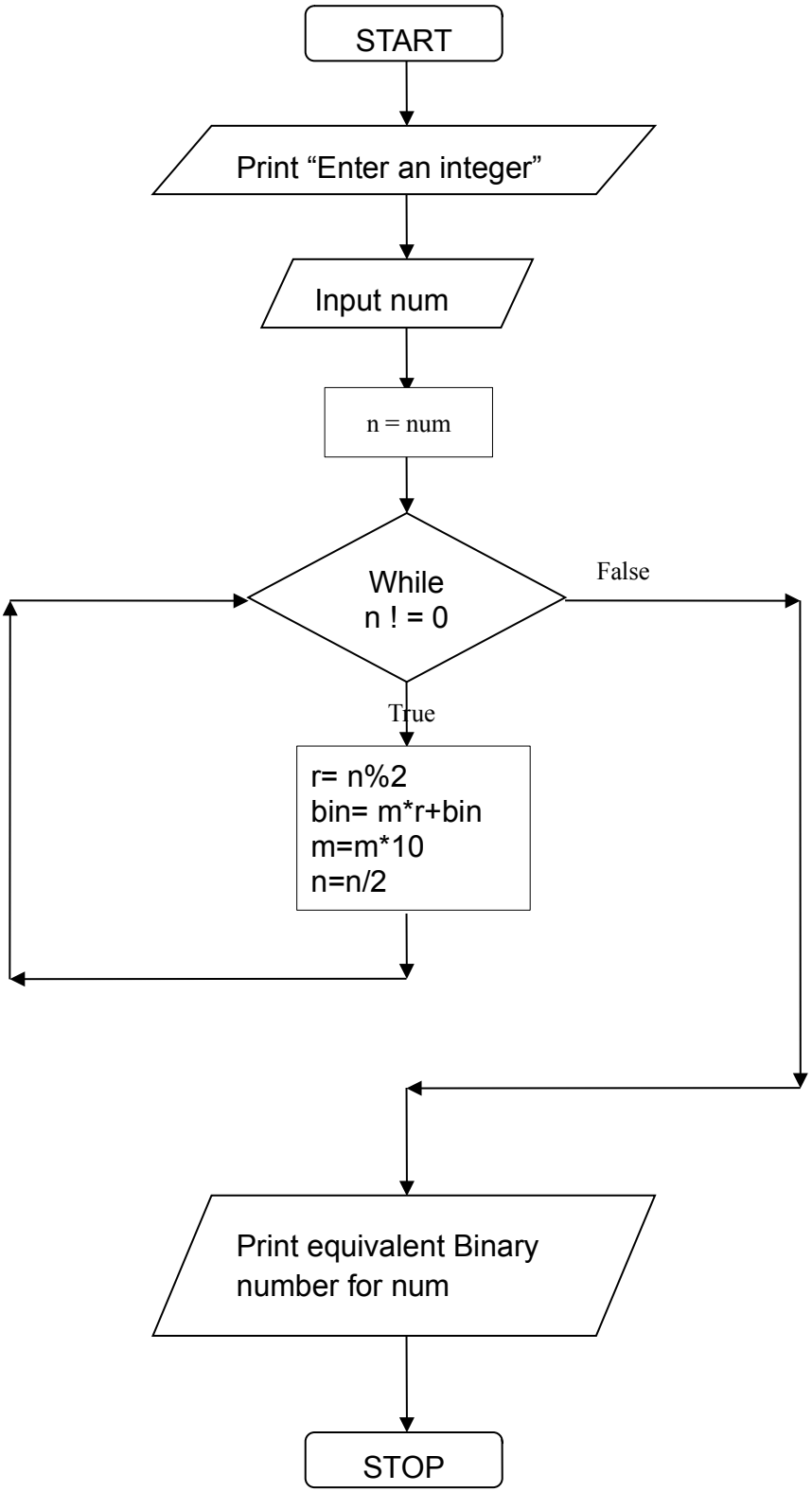
Step 8: Calculate m = m*10

Step 9: Calculate n = n/2

Step 10: Print num and bin.

Step 11: Stop

Flowchart :


START
Print “Enter an integer”
Input num
n = num
While
n ! = 0
False
True
r= n%2
bin= m*r+bin
m=m*10
n=n/2
Print equivalent Binary
number for num
STOP