1. Write a pseudocode that takes a positive integer as an input and decides whether it is odd or even. HINT: Use bitwise AND (&), OR (|) operators.
   b. Implement the program code for your pseudocode.
   c. Edit your program in such a way that it takes 3 positive integers as input and makes decisions for all.

2. Write a program that prints a decision of “ODD” or “EVEN” for its integer input.

   sample output:
   Enter an integer : 6
   Input number is EVEN
   Enter an integer : 33
   Input number is ODD
   Enter an integer : -1
   Exiting...

3. Write a program that prints a table of squares (0-10).

   sample output:
   ::::a table of squares ::::
   integer   square
   ---------------------
   0        0
   1        1
   2        4
   …        …
   10       100

4. Write a program that prints a table of prime numbers between 0 and 40.

   sample output:
   ---------------------
   ::Prime Numbers (0-40)::
   ---------------------
   2 3 5 7 11 13 17 19 23 29 31 37
   ---------------------

b. Write a program that finds the prime factors of an integer input between 2 - 40.
   Some examples are:
   Input: 40 => prime factors: 2, 5
   Input: 36 => prime factors: 2, 3
   Input: 17 => prime factors: 17
   Input: 26 => prime factors: 2, 13