1. Write a program to print all **leap years** from year1 to year2, with year1, year2 input from keyboard and year1,year2 from 1900 to 2900 ( 1 mark).
2. Write a program to print all **NON-prime** numbers from 100 to 150 (1 mark)
3. Write a program to implement the formula **1+2+3+..+N** with **N** is an integer number that input from keyboard. You should check N value from 20 to 30 (1 mark).
4. Write a program to calculate electronic power supply bill, input actual consumption from keyboard (4 marks).  
   Below table is the payment rate for actual consumption (not including VAT), the total amount for a bill adds more 10%VAT of actual consumption.

|  |  |
| --- | --- |
| Units used | Tariff (VND/kWh) |
| First 500 units | 1000 |
| Next 100 units (501-600 kWj) | 2000 |
| Next 100 units (601-700 kWj) | 5000 |
| Over 700 units (701…) | 10000 |

For example: This month consumption is 650 kWh, the billing payment is (500 x 1000 + 150 x 2000)\*110% = 880.000 VND.

1. Write a program to calculate total payment of an installment plan pricing motorbike with bellow contains: (3 marks).
   * N is the motorbike price, for example 24.000.000 VND
   * D : Duration in month, for example: 24 months. (Validate from 12 to 36).
   * R: Rate, for example 0.8 (0.8%). (Validate from 0.5 to 2.0)
   * P: Accumulate your payment, for 1st month is zero.
   * Mi: Monthly payment = N/D + (N-P)\*R.
   * Total = M1+M2+…+MD. (Incase D=24 months, Total = M1+..+M24).
   * N,D,R input from keyboard.