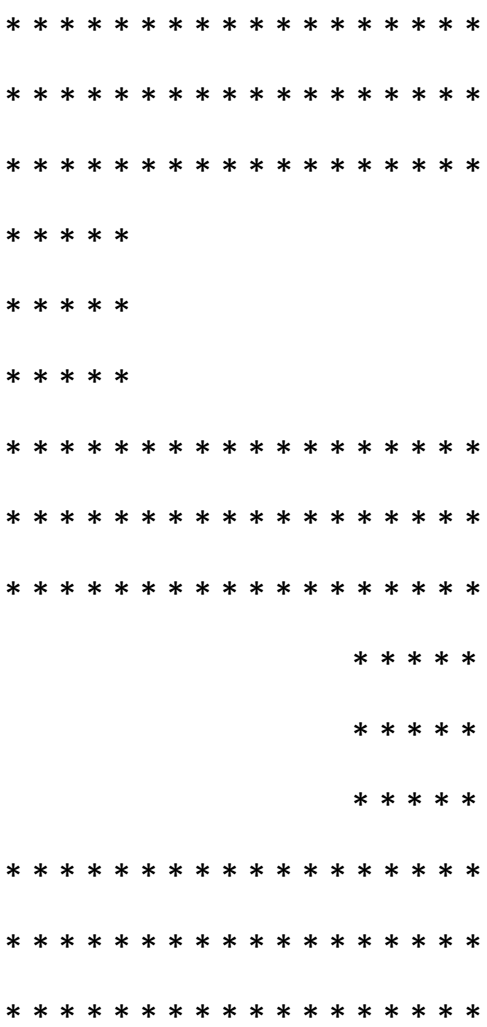
Task 2.4

1. A program to evaluate the below equation, y = x^n where n is a non-negative integer. Accept the value of x and n from user and find the value of y by using loop.
2. Write a program to display the multiplication table from 1 X 1 to 12 X 10 as shown below is given,

1	2	3	4	5	6	7	8	9	10
2	4	6	8	10	12	14	16	18	20
3	6	9	12	15	18	21	24	27	30
4	8	12	16	20	24	28	32	36	40
5	10	15	20	25	30	35	40	45	50
6	12	18	24	30	36	42	48	54	60
7	14	21	28	35	42	49	56	63	70
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
12	24	36	48	60	72	84	96	108	120

3. Accept a number from user and write a program to display its reverse number by using loop. For example, the number given by user is 12345 should be displayed as 54321. Hint: Use Modulus operator to extract the last digit and the integer division by 10 to get the n-1 digit number from the n digit number.
4. Write a program that will accept the integer value and will determine its equivalent binary number. Hint: The bits of the binary representation of an integer can be generated by repeatedly dividing the number and the successive quotients by 2 and saving the remainder, which is either 0 or 1, after each division.
5. Write a program using for and if statement to display the capital letter S in a grid of 15 rows and 18 columns as shown below:



6. Write a program to print a square of size 5 by using the character Q as shown below :

A.
```
Q Q Q Q Q
Q Q Q Q Q
Q Q Q Q Q
Q Q Q Q Q
Q Q Q Q Q
```

B.
```
Q Q Q Q Q
Q       Q
Q       Q
Q       Q
Q Q Q Q Q
```

C.
```
Q Q Q Q Q
Q Q Q Q Q
Q Q R Q Q
Q Q Q Q Q
Q Q Q Q Q
```