Question 1:

Write the program, which is calculate the profit of investment , given an amount of investment, interest rate and number of investment year.

principle = 1000;   // notice that this is a valid double value
interestRate = 0.0625;   // that is 6.25%
numOfYears = 5;

numOfYears = 8;//also calculate for 8 years

Question 2:

Take values of length and breadth of a rectangle from the users and check if it is square or not.

Questions 3:

A school has following rules for grading system:
a. Below 25 - F
b. 25 to 45 - E
c. 45 to 50 - D
d. 50 to 60 - C
e. 60 to 80 - B
f. Above 80 - A
print the corresponding grade base of variable, Which you get from users.

Questions 4:

Take 4th int values from the users and print greatest among them.

Questions 5:

Write a program to solve quadratic equations with 3 variables get from users.

Questions 6:

Write the code to print Fibonacci numbers until 300.

Questions 7:

Write the program to print the factorial number of the value getting from user?

Questions 8:

Write a program to convert temperature from Fahrenheit to Celsius degree getting the values from users.

Questions 9:

Write a program to convert minutes into a number of years and days.

Questions 10:

Write a program that takes three numbers as input to calculate and print the average of the numbers.

Questions 11:

Print the following patterns using loop getting the number of line from user:

a.
   5
   45
   345
   2345
   12345

b. 5
    54
    543
    5432
    54321

c.
     1
     12
     123
     1234
     12345
     123456

d.
 * * * * *
  * * * *
   * * *
    * *
     *

d.
         *
        **
       ***
      ****
     *****
      ****
       ***
        **
         *

e.
```
* * * * *
 * * * *
  * * *
   * *
    *
    *
   * *
  * * *
 * * * *
* * * * *
```

f.

```
1
2 3
4 5 6
7 8 9 10
11 12 13 14 15
```

g. (it should be odd number)

```
  1
 212
32123
4321234
 32123
  212
   1
```

h. (it should be odd number)
```
      *
    * * *
   * * * * *
  * * * * * *
* * * * * * * *
  * * * * * * *
   * * * * *
    * * *
     *
```

x
Questions 12:

Write a program to display the cube of the number up to given an integer.

Test Data :

Input number of terms : 5

Expected Output :

Number is : 1 and cube of the 1 is :1

Number is : 2 and cube of the 2 is :8

Number is : 3 and cube of the 3 is :27

Number is : 4 and cube of the 4 is :64

Number is : 5 and cube of the 5 is :125

Questions 13:

Write a program to find the sum of the series 1 +11 + 111 + 1111 + .. n terms.

Test Data :

Input the number of terms : 5

Expected Output :

1 + 11 + 111 + 1111 + 11111 +

The Sum is : 12345

Questions 14:

Write a program to read n numbers from keyboard and find their sum and average

Questions 15:

Write a program to accept a grade and declare the equivalent description :

Grade	Description
E	Excellent
V	Very Good
G	Good
A	Average
F	Fail

Test Data :
Input the grade :a
Expected Output :
You have chosen : Average

Questions 16:

Write a method that print 10 by 10 multiplication table. Make it readable

```
Expected input and output
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
8  16  24  32  40  48  56  64  72  80
9  18  27  36  45  54  63  72  81  90
10  20  30  40  50  60  70  80  90 100
```

Questions 17:

Write a program to display the multiplication table of a given integer.
Test Data :
Input the number (Table to be calculated) : 15
Expected Output :
15 X 1 = 15
...
...
15 X 10 = 150