

Exercise 2

1. Develop a program to obtain the value of length and width from a rectangle, and check if it is a square or not.

```

↳ Please input the length: 30
Please input the width: 30
This is a square.

```

```

↳ Please input the length: 50
Please input the width: 60
This is not a square.

```

2. Develop a program to ask user input marks and print the corresponding grade according to the following grading system.

Mark above	Grade
0	U
40	F
50	E
60	D
70	C
80	B
90	A

```

↳ Input the Mark: 55
Grade E

```

```

↳ Input the Mark: 100
Grade A

```

3. By using looping, develop a program to sum the first n positive integers.

```

Input a number: 5
The sum for first 5 positive integer is: 15

```

4. Develop a program to find those numbers which are divisible by 7 and multiple of 5 within the user input range.

```

↳ Input the Number From: 1000
Input the Number To: 1200
The number divisible by 7 and multiple of 5 within 1000 - 1200
1015
1050
1085
1120
1155
1190

```

5. Develop a program to find out all prime numbers within user input range.

A prime number is a whole number that cannot be made by multiplying other whole numbers.

For example: 6 is not a prime number because it can be made by $2 \times 3 = 6$, 37 is a prime number because no other whole numbers multiply together to make it.

```
↳ Input a number: 20
   The prime number within 20 are:
   2
   3
   5
   7
   11
   13
   17
   19
```