1. Write a Python program to find those numbers which are divisible by 7 and multiple of 5, between 1500 and 2700 (both included).

```
for number in range(1500,2701):
  if number%7==0 and number%5==0:
    print(number)
```

```
1505
1540
1575
1610
1645
1680
1715
1750
1785
1820
1855
1890
1925
1960
1995
2030
2065
2100
2135
2170
2205
2240
2275
2310
2345
2380
2415
2450
2485
2520
2555
2590
2625
2660
2695
```

2.Write a Python program that prints all the numbers from 0 to 6 except 3 and 6.

```
for number in range(0,7):
  if number%3!=0:
```

```
    print(number)
```

```
1
2
4
5
```

3.Write a Python program to construct the following pattern, using a nested for loop.

1

12

123

12

1

```
width=int(input("enter the max widht "))

for i in range(1,(width*2)):
    if i<=width:
        counter=0
        for j in range(1,i+1):
            print(j, end=" ")
        print("")

    else:
         for j in range(1,((width*2)-i+1)):
            print(j, end=" ")
         print("")
```

```
enter the max widht 3
1
1 2
1 2 3
1 2
1
```

4.Count the total number of digits in a number

```
number=input("enter the number")
print("The length of the number is"+len(number))
```

5.Find the factorial of a given number

```
number=int(input("enter the number"))
temp=number
for i in range(1,number):
    temp=temp*(number-i)
print(temp)
```

```
enter the number to find factorial4
298995972
```

6.Design a menu driven calculator

```
number1=int(input("enter two numbers"))
number2=int(input(""))
operation=input("enter the operation as '+-/*' ")
if operation=="+":
  print(number1+number2)
elif operation=="-":
  print(number1-number2)
elif operation=="*":
  print(number1*number2)
elif operation=="/":
  print(number1/number2)
```

```
enter two numbers12
24
enter the operation as '+-/*' /
0.5
```