

```
# fizz buzz
```

```
number = int(input("enter a number: "))
```

```
for max_number in range(1, number):
```

```
    if max_number % 3 == 0 and max_number % 5 == 0:
```

```
        print("fizzbuzz", max_number)
```

```
    elif max_number % 3 == 0:
```

```
        print("fizz", max_number)
```

```
    elif max_number % 5 == 0:
```

```
        print("buzz", max_number)
```

```
    else:
```

```
        print(max_number)
```

```
# fibonacci series
```

```
def fibonacci(x, y):
```

```
    while y <= 100:
```

```
        print(y)
```

```
        x, y = y, x + y
```

```
fibonacci(0, 1)
```

```
# program to check if a give number is a power of 2
```

```
import math
```

```
def power_of_two(number):  
    if not math.log(number, 2).is_integer():  
        return False  
    else:  
        return True
```

```
number = int(input("Enter the number: "))  
print(power_of_two(number))
```

# capitalizing first letter of each word in a sentence

```
message = input("Enter a message: ")  
print(message.title())
```

# reversing an integer

```
def reverse_integers(number):  
    sign = 0  
    number_string = str(number)
```

```
new_number = number_string.replace('-', '')
```

```
reversed_num = int(new_number[::-1])
```

```
if number < 0:
```

```
    sign = -1
```

```
    return reversed_num * sign
```

```
else:
```

```
    sign = 1
```

```
    return reversed_num * sign
```

```
number = int(input("Number: "))
```

```
print(reverse_integers(number))
```

```
# counting vowels in a sentence
```

```
def vowels_count(message):
```

```
    vowels_in_message = []
```

```
    vowels = "aeiou"
```

```
    for char in message.lower():
```

```
        if char in vowels and char not in vowels_in_message:
```

```
            vowels_in_message.append(char)
```

```
    return len(vowels_in_message)
```

```
message = input("Enter message: ")
```

```
print(vowels_count(message))
```