Assignment 1

In [2]:

```python
num = 16

if num < 0:
    print("Enter a positive number")
else:
    sum = 0
    # use while loop to iterate until zero
    while(num > 0):
        sum += num
        num -= 1
    print("The sum is", sum)
```

The sum is 136

In [3]:

```python
num = 3258

if num < 0:
    print("Enter a positive number")
else:
    sum = 0
    # use while loop to iterate until zero
    while(num > 0):
        sum += num
        num -= 1
    print("The sum is", sum)
```

The sum is 5308911

In [4]:

```python
num = 96587

if num < 0:
    print("Enter a positive number")
else:
    sum = 0
    # use while loop to iterate until zero
    while(num > 0):
        sum += num
        num -= 1
    print("The sum is", sum)
```

The sum is 4664572578

Assignment 2

In [5]:

```python
num = 11

# If given number is greater than 1
if num > 1:

    # Iterate from 2 to n / 2
    for i in range(2, num):

        # If num is divisible by any number between
        # 2 and n / 2, it is not prime
        if (num % i) == 0:
            print(num, "is not a prime number")
            break
```

```python
    else:
        print(num, "is a prime number")

else:
    print(num, "is not a prime number")
```

11 is a prime number

In [6]:

```python
num = 257

# If given number is greater than 1
if num > 1:

    # Iterate from 2 to n / 2
    for i in range(2, num):

        # If num is divisible by any number between
        # 2 and n / 2, it is not prime
        if (num % i) == 0:
            print(num, "is not a prime number")
            break
    else:
        print(num, "is a prime number")

else:
    print(num, "is not a prime number")
```

257 is a prime number

In [7]:

```python
num = 9658742

# If given number is greater than 1
if num > 1:

    # Iterate from 2 to n / 2
    for i in range(2, num):

        # If num is divisible by any number between
        # 2 and n / 2, it is not prime
        if (num % i) == 0:
            print(num, "is not a prime number")
            break
    else:
        print(num, "is a prime number")

else:
    print(num, "is not a prime number")
```

9658742 is not a prime number

In [ ]: