CN - Lab 9 1BM18CS025

Leaky bucket Algorithm

```
if __name__ == "__main__":
    storage = 0  # initial bucket storage

# max bucket size
bucket_size = int(input("Enter max Bucket capacity:"))
sizeleft = bucket_size
# number of packets going out
output_size = int(input("Enter output rate:"))
# num of times buckets content is checked
queries = int(input("Enter number of times bucket is checked:"))
for i in range(queries):
    size_left = bucket_size - storage  # Space left
    print("packet NO", i, ":")
    # number of packets coming in at a time
    input_size = int(input("Enter packet size:"))
    if (input_size <= left_size):
        storage += input_size
        print("Buffer size={0} Bucket size={1}".format(storage, bucket_size))
        print(input_size, "bytes sent")
    else:
        print("Overflow")
        print("packet Loss={0} bytes Lost".format(input_size))
    # storage is full
    storage = bucket_size
    print("Buffer size={0} Bucket size={1}".format(storage, bucket_size))
storage -= output_size
```