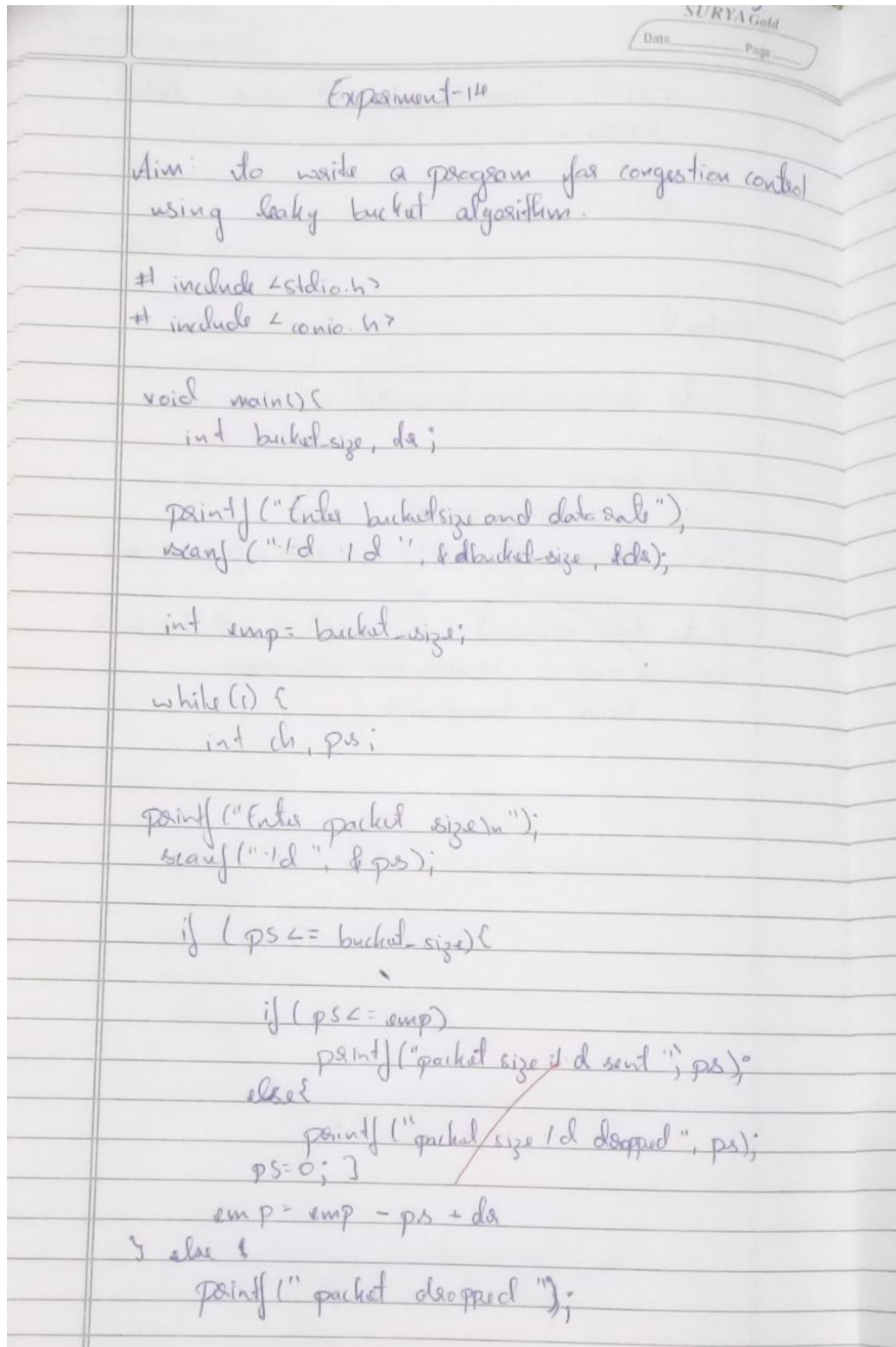


# EXPERIMENT- 14

Write a program for congestion control using Leaky bucket algorithm.



```
printf("Continue transmission? ");  
scanf("%d", &ch);
```

```
if (ch == 0)  
    break;
```

```
}
```

```
}
```

Output :

Enter bucket size and data rate

4000 250

Enter packet size

5000

packet dropped

Continue transmission?

1

Enter packet size

1000

packet size 1000 sent

Continue transmission? 1

~~Enter packet size~~

3000

packet size 3000 sent

Continue transmission?

1

Enter packet size

750

packet size 750 dropped

Continue transmission?

0

Code:

```
bucket=int(input("Enter bucket capacity "))

rate=int(input("Enter rate of data transmission "))

remaining=bucket

while True:

    packet=int(input("Enter packet size(-1 for no packets, -2 for end of
transmission) "))

    if packet==-2:

        break

    if packet>bucket:

        print("Packet can't be sent")

    else:

        if remaining+rate>=packet:

            remaining-=packet

            print("Packet sent")

        else:

            print("Packet can't be sent")
```

```

if remaining==bucket:

    continue

if bucket-remaining<rate:

    remaining=bucket

    continue

remaining+=rate

```

Result:

```

PS C:\Users\aravi\OneDrive\Desktop\notes\CN> & C:/Python311/python.exe c:/Users/a
.py
Enter bucket capacity 4000
Enter rate of data transmission 250
Enter packet size(-1 for no packets, -2 for end of transmission)5000
Packet can't be sent
Enter packet size(-1 for no packets, -2 for end of transmission)1000
Packet sent
Enter packet size(-1 for no packets, -2 for end of transmission)3000
Packet sent
Enter packet size(-1 for no packets, -2 for end of transmission)750
Packet sent
Enter packet size(-1 for no packets, -2 for end of transmission)500
Packet can't be sent
Enter packet size(-1 for no packets, -2 for end of transmission)-1
Packet sent
Enter packet size(-1 for no packets, -2 for end of transmission)500
Packet sent
Enter packet size(-1 for no packets, -2 for end of transmission)-2

```