**Experiment No.5**

**A.I.M- :**  TO Implement Leaky Bucket.

Source Code-:

#include <stdio.h>    
void bktInput(int a, int b, int size) {   
if (a > size)   
printf("\tBucket overflow.\n");   
else {   
sleep(1);   
while (a > b) {    
printf("\t%d bytes outputted\n", b);   
a -= b;   
sleep(1);   
}    
if (a > 0) printf("\tLast %d bytes sent\n", a);   
printf("\tBucket output successful.\n");   
}   
}   
int main() {   
int op, pktSize, i, bktsize, n, delay;   
printf("bucket Size : ");   
scanf("%d", &bktsize);   
printf("Output Rate : ");   
scanf("%d", &op);   
printf("No of packets : ");   
scanf("%d", &n);   
for (i = 0; i < n; i++) {   
delay = (rand() % 10);   
sleep(delay);   
pktSize = rand() % 1000;   
printf("Packet no %d\tPacket size = %d\n", i, pktSize);   
bktInput(pktSize, op, bktsize);   
}   
return 0;   
}

***Output -:***

