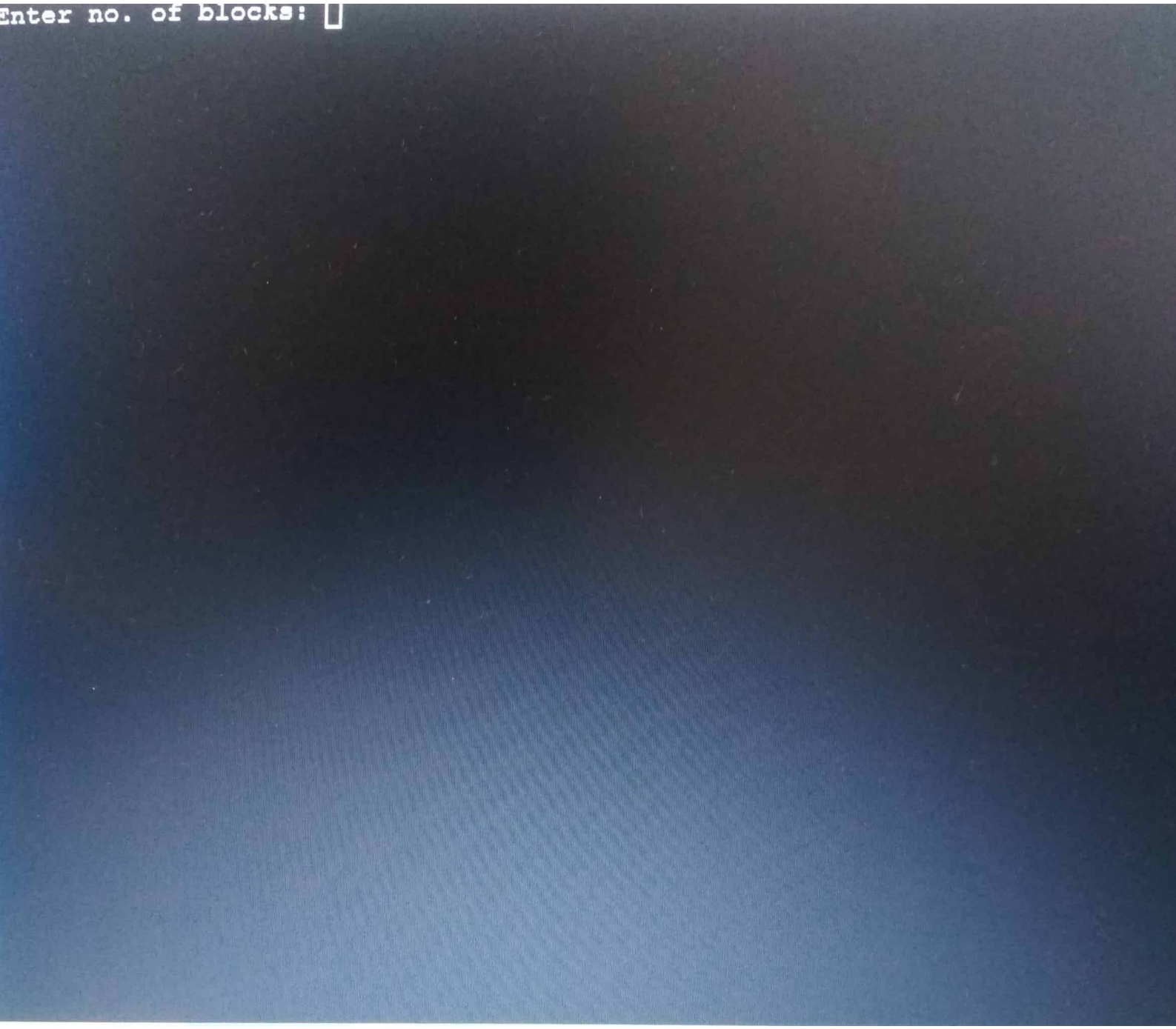
Operating System

Q-1

```
#include <stdio.h>
void main()
{
int bsize[10], psize[10], bno, pno, flags[10],
allocation[10], i, j

for (i= 0; i<10; i++)
 {
flags[i] =0;
allocation[i] =-1;
}
printf ("Enter no. of blocks:");
scanf ("%d", &bno);
printf ("\n Enter size of each block:");
for (i= 0; i<bno; i++)
scanf ("%d", &bsize[i]);
printf ("\n Enter no. of processes:");
scanf ("%d", &pno);
for (i=0; i< pno; i++)  // allocation as per
  first fit
for (j= 0; j< bno; j++)

if (flags[j] ==0 && bsize[j] >= psize[i]
{
```

```
allocation[j] = i;
flags[j] = 1;
break;
}
// display allocation details
printf("\n Block no. \t size \t \t process no.
\t \t size");
for (i = 0; i < bno; i++)
{
printf("\n %d \t \t %d \t \t", i+1, bsize[i]
if (flags[i] == 1)

printf("%d \t \t \t %d", allocation[i]
+1, psize[allocation[i]]);

else
printf("Not allocated");
}
}
```


Enter no. of blocks: