Name : Natasha Sebastian

USN : 4AH19CS057

G-Section.

Algorithm

1) Start

2) Input r, c

3) Display "Enter matrix elements"

```
for (i=0; i<r; i++)
for (j=0; j<c; j++)
  input a[i][j]
  end for.
```

4) Print "Entered matrix is"

5) " Output " \n"

```
if (j== (-1))
output "\n"
```

6) for (i=0; i<r; i++)

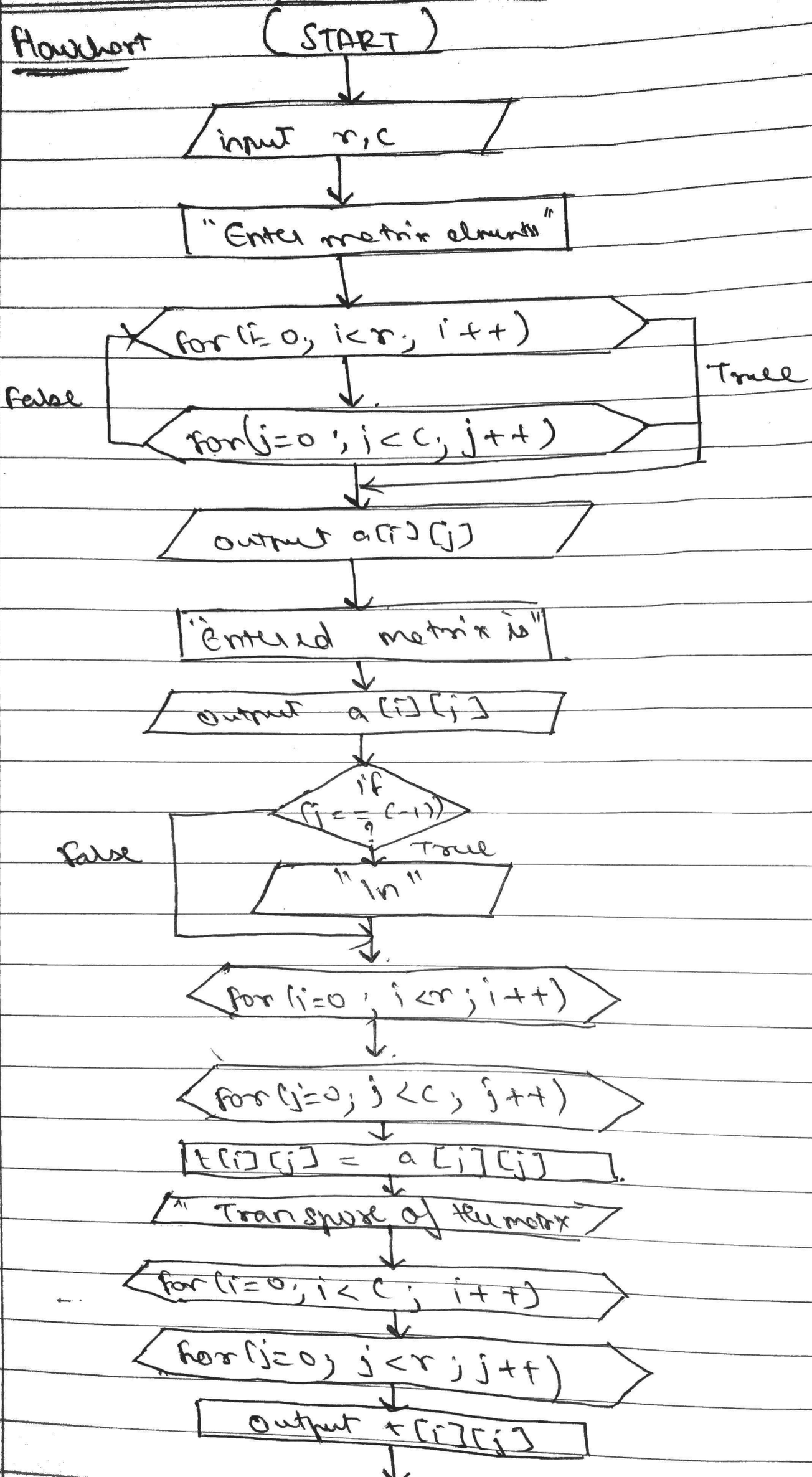
```
for (j=0; j<c; j++)
  t[i][j]= a[i][j];
```

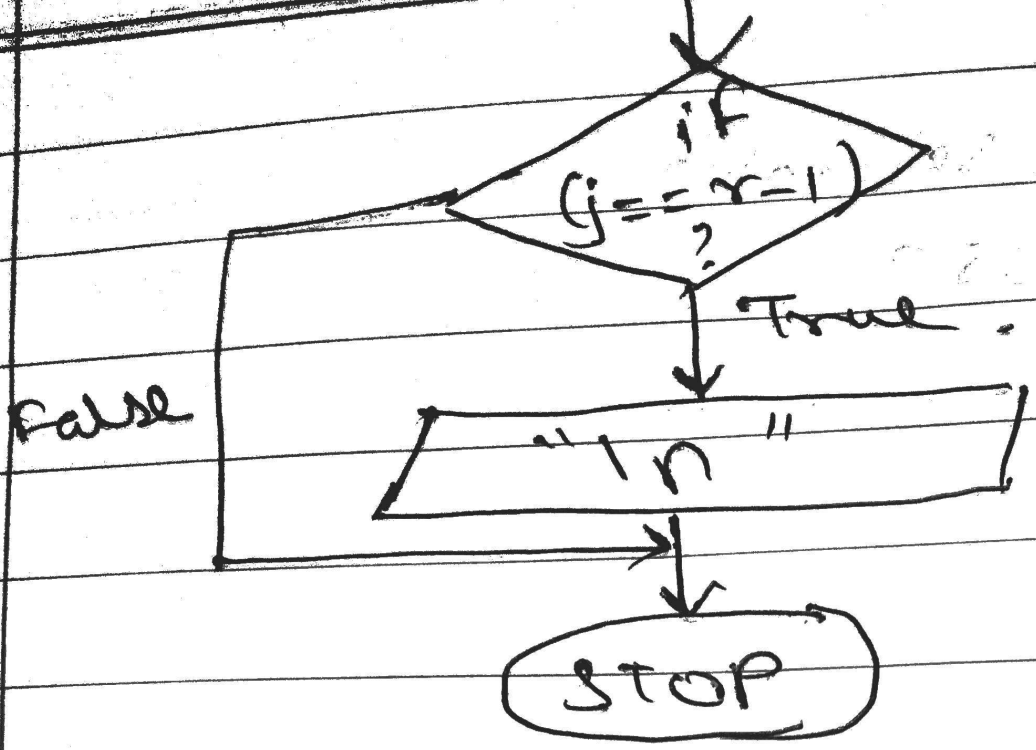
7) Display " Transpose of matrix "

```
repeat for(i=0; i<c; i++)
Repeat for(i=0; j< r; j++)
  Output < [i][j]
  if (j== r-1)
  output "\n"
```

8) STOP.

Flowchart


START
input r, c
"Enter matrix elements"
for(i=0; i<r; i++)
for(j=0; j<c; j++)
True
False
output a[i][j]
"Entered matrix is"
output a[i][j]
if (j == (c-1))
True
False
"\n"
for(i=0; i<r; i++)
for(j=0; j<c; j++)
t[i][j] = a[i][j]
Transpose of the matrix
for(i=0; i<c; i++)
for(j=0; j<r; j++)
output t[i][j]


if
(j == r-1)
?
True
False
"\n"
STOP