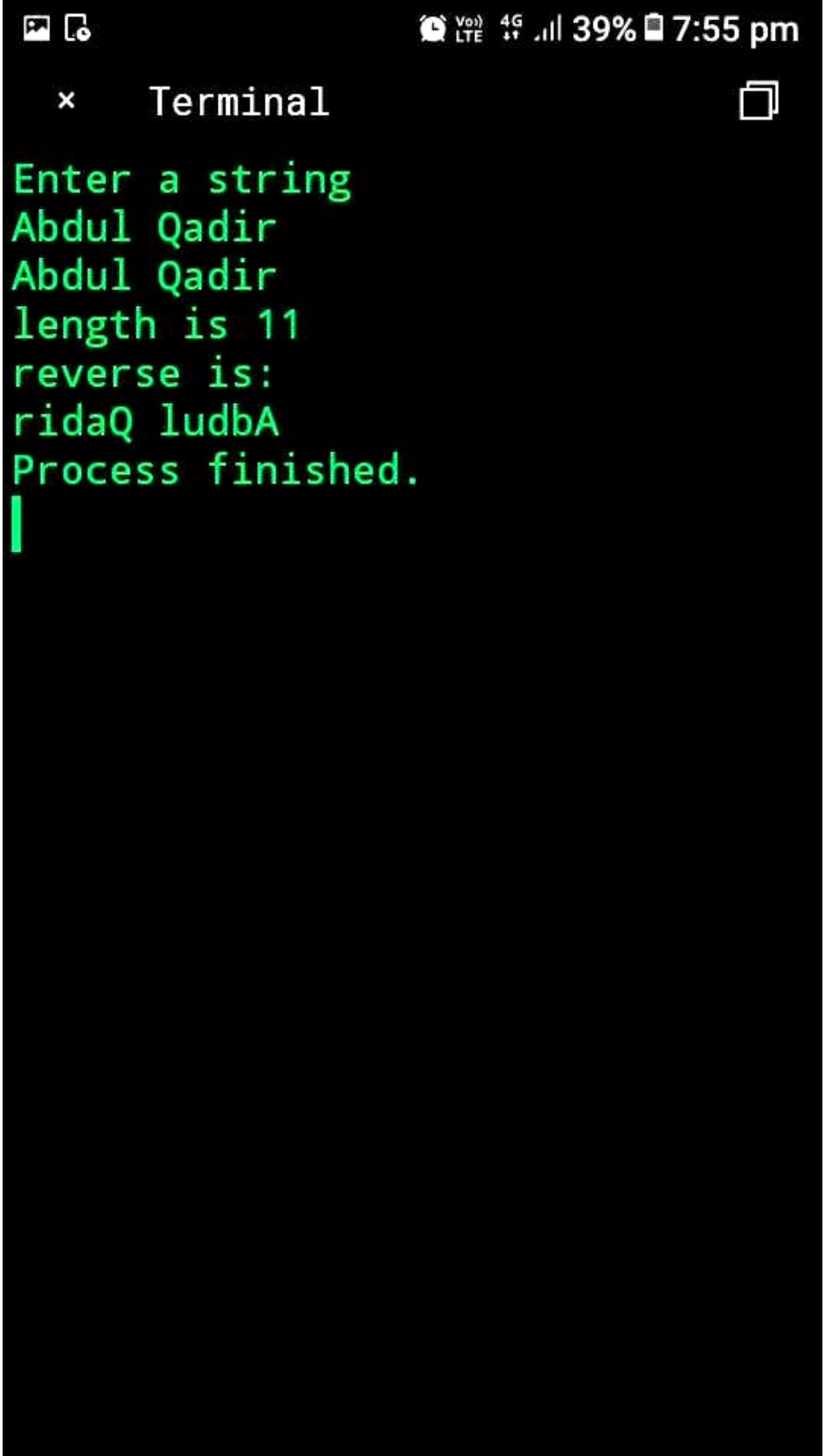
e string.c len

Saved

```c
#include <stdio.h>
/* ABDUL QADIR BOXWALA   CSE
Sec F    AB-15011     ans1 */
int main()
{
  char s[50];
  int i,l=0;
  printf("Enter a string\n");
  gets(s);
  printf("%s",s);
  //length
  for(i=0;s[i]!='\0';i++)
     l++;
  printf("\nlength is %d\n",l);
  //reverse string
  printf("reverse is:\n");
  for(i=l;i>=0;i--)
    printf("%c",s[i]);
  return 0;
}
```

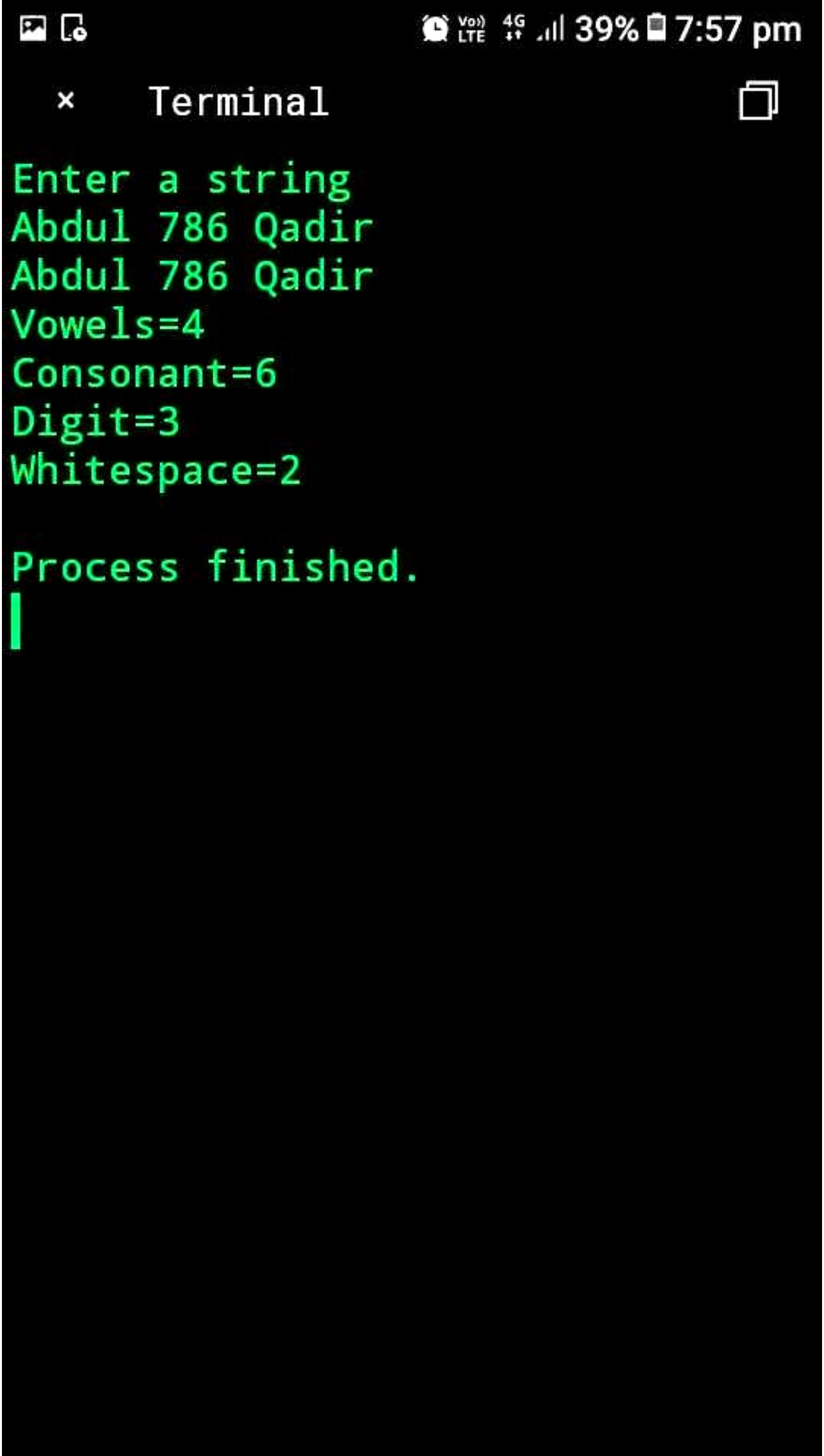

39% 7:55 pm
Terminal
Enter a string
Abdul Qadir
Abdul Qadir
length is 11
reverse is:
ridaQ ludbA
Process finished.

in string.c

Saved

```c
#include <stdio.h>
/* ABDUL QADIR BOXWALA   CSE
Sec F    AB-15011     ans2 */
int main()
{
  char s[50];
  int i,vowel=0,consonant=0,digit=0,white=
  printf("Enter a string\n");
  gets(s);
  printf("%s\n",s);
  for(i=0;s[i]!=0;i++){
    if(s[i]=='a'||s[i]=='e'||s[i]=='i'||
       s[i]=='o'||s[i]=='u'||s[i]=='A'||
       s[i]=='E'||s[i]=='I'||s[i]=='O'||
       s[i]=='U')
       vowel++;
    else if((s[i]>='a'&&s[i]<='z')||
            (s[i]>='A'&&s[i]<='Z'))
            consonant++;
    else if(s[i]>='0'&&s[i]<='9')
          digit++;
    else
      white++;

  }
  printf("Vowels=%d\n",vowel);
  printf("Consonant=%d\n",consonant);
  printf("Digit=%d\n",digit);
  printf("Whitespace=%d\n",white);
  return 0;
}
```


39% 7:57 pm
Terminal
Enter a string
Abdul 786 Qadir
Abdul 786 Qadir
Vowels=4
Consonant=6
Digit=3
Whitespace=2
Process finished.

er.c reverse a

Saved

```c
#include <stdio.h>
/* ABDUL QADIR BOXWALA   CSE
Sec F    AB-15011     ans3 */
int main()
{
  int a[20],n;
  printf("Enter no. of elements\n");
  scanf("%d",&n);
  take(&a[0],n);//input fucn
  printf("\n");
  revs(&a[n-1],n);//reverse fucn
  return 0;
}
/*passing entire array to function
  using pointer*/
take(int *p,int n)//input array
{
  int i;
  for(i=0;i<n;i++){
    printf("a[%d]=",i);
    scanf("%d",p);
    p++;
  }
}
revs(int *p,int n)//reverse array
{
  int i;
  for(i=0;i<n;i++){
    printf("a[%d]=%d\n",i,*p);
    p--;
  }
}
```

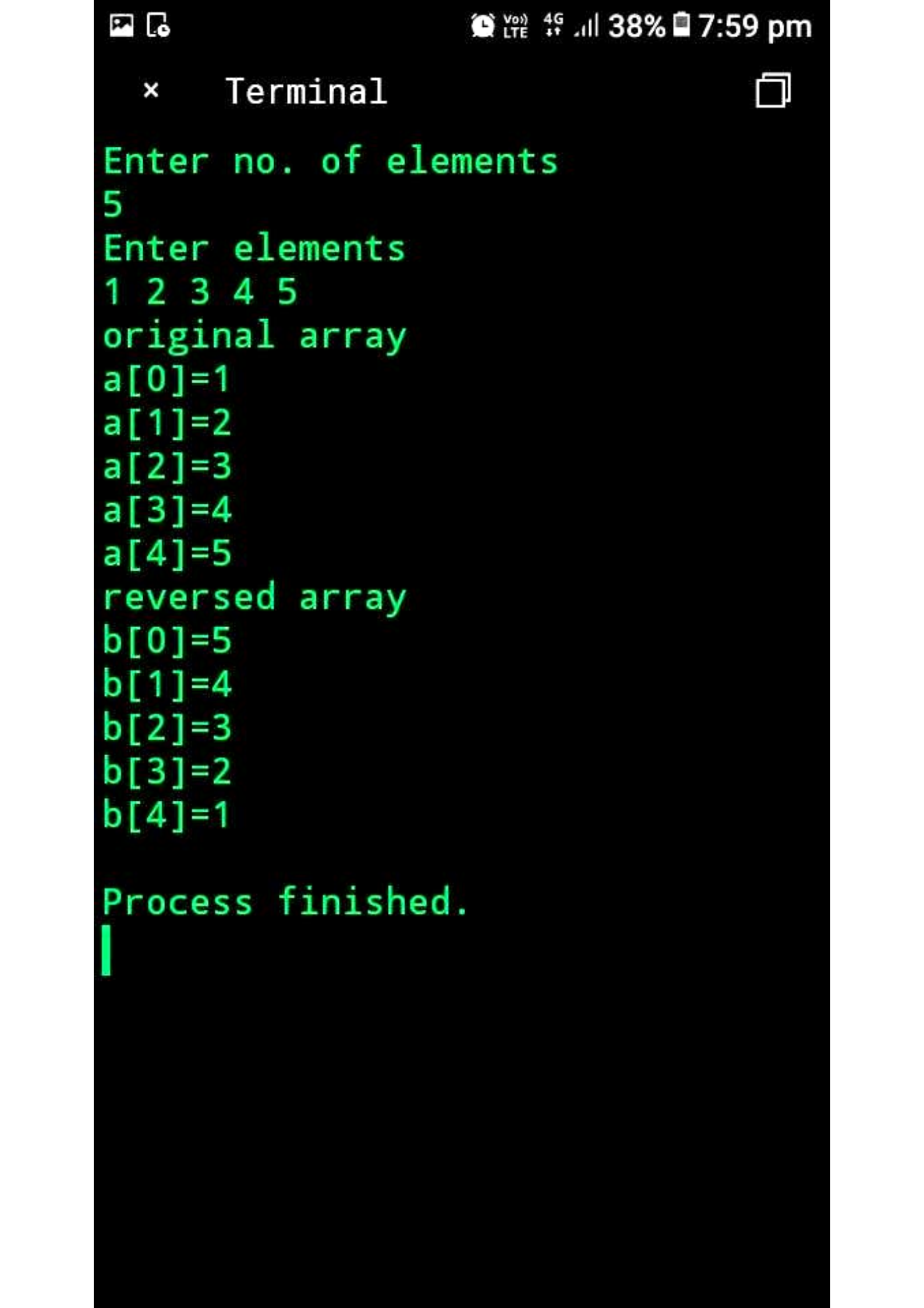

39% 7:58 pm
Terminal
Enter no. of elements
5
a[0]=1
a[1]=2
a[2]=3
a[3]=4
a[4]=5
a[0]=5
a[1]=4
a[2]=3
a[3]=2
a[4]=1
Process finished.

copy reverse arr

Saved

```c
#include <stdio.h>
/* ABDUL QADIR BOXWALA   CSE
Sec F    AB-15011     ans4 */
int main()
{
  int a[20],b[20],n,*p,i;
  printf("Enter no. of elements\n");
  scanf("%d",&n);
  printf("Enter elements\n");
  for(i=0;i<n;i++)
    scanf("%d",&a[i]);
  //copy elements
  p=&a[n-1];
  for(i=0;i<n;i++){
    b[i]=*p;
    p--;
  }
  printf("original array\n");
  print_a(&a[0],n);
  printf("reversed array\n");
  print_b(&b[0],n);
  return 0;
}
```

```
24 void print_a(int *p,int n)
25 {
26   int i;
27   for(i=0;i<n;i++){
28     printf("a[%d]=%d\n",i,*p);
29     p++;
30   }
31 }
32 void print_b(int *p,int n)
33 {
34   int i;
35   for(i=0;i<n;i++){
36     printf("b[%d]=%d\n",i,*p);
37     p++;
38   }
39 }
40
```


38% 7:59 pm
Terminal
Enter no. of elements
5
Enter elements
1 2 3 4 5
original array
a[0]=1
a[1]=2
a[2]=3
a[3]=4
a[4]=5
reversed array
b[0]=5
b[1]=4
b[2]=3
b[3]=2
b[4]=1
Process finished.

array.c small

Saved

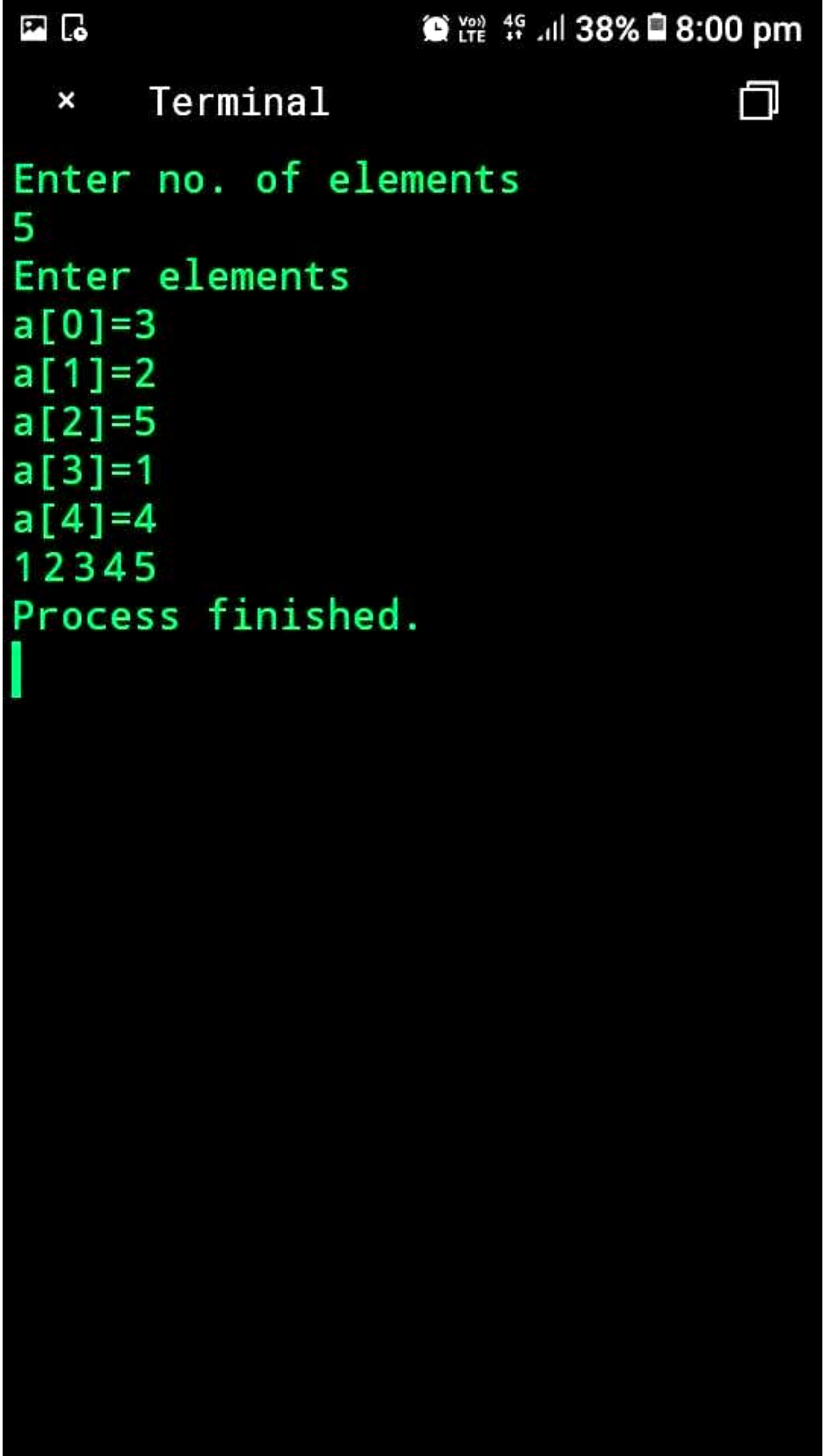
```c
#include <stdio.h>
/* ABDUL QADIR BOXWALA   CSE
Sec F    AB-15011     ans5 */
int main()
{
  int a[20],i,n,*p;
  printf("Enter no. of elements\n");
  scanf("%d",&n);
  printf("Enter elements\n");
  for(i=0;i<n;i++){
    printf("a[%d]=",i);
    scanf("%d",&a[i]);
  }
  p=&a[0];
  for(i=0;i<n;i++){
    if(*p>a[i])
      p=&a[i];
  }
  printf("Smallest is %d",*p);
  return 0;
}
```


38% 7:59 pm
Terminal
Enter no. of elements
5
Enter elements
a[0]=2
a[1]=5
a[2]=3
a[3]=1
a[4]=4
Smallest is 1
Process finished.

sing pointer.c

Saved

```c
#include <stdio.h>
/* ABDUL QADIR BOXWALA   CSE
Sec F    AB-15011     ans6 */
int main()
{
  int a[20],i,j,n,*p,t;
  printf("Enter no. of elements\n");
  scanf("%d",&n);
  printf("Enter elements\n");
  for(i=0;i<n;i++){
    printf("a[%d]=",i);
    scanf("%d",&a[i]);
  }
  p=&a[0];
  for(i=0;i<n;i++){
    for(j=i+1;j<n;j++){
      if(*(p+i)>*(p+j)){
        t=*(p+i);
        *(p+i)=*(p+j);
        *(p+j)=t;
      }
    }
  }
  for(i=0;i<n;i++)
    printf("%d\t",a[i]);
  return 0;
}
```


38% 8:00 pm
Terminal
Enter no. of elements
5
Enter elements
a[0]=3
a[1]=2
a[2]=5
a[3]=1
a[4]=4
12345
Process finished.

array using pointe

Saved

```c
#include <stdio.h>
/* ABDUL QADIR BOXWALA   CSE
Sec F    AB-15011     ans7 */
int main()
{
  int i,j;
  int a[3][3]={ {1,2,3},
                {4,5,6},
                {7,8,9} };
  for(i=0;i<3;i++){
    for(j=0;j<3;j++){
      printf("%2d",*(*(a+i)+j));
    }
    printf("\n");
  }
  return 0;
}
```

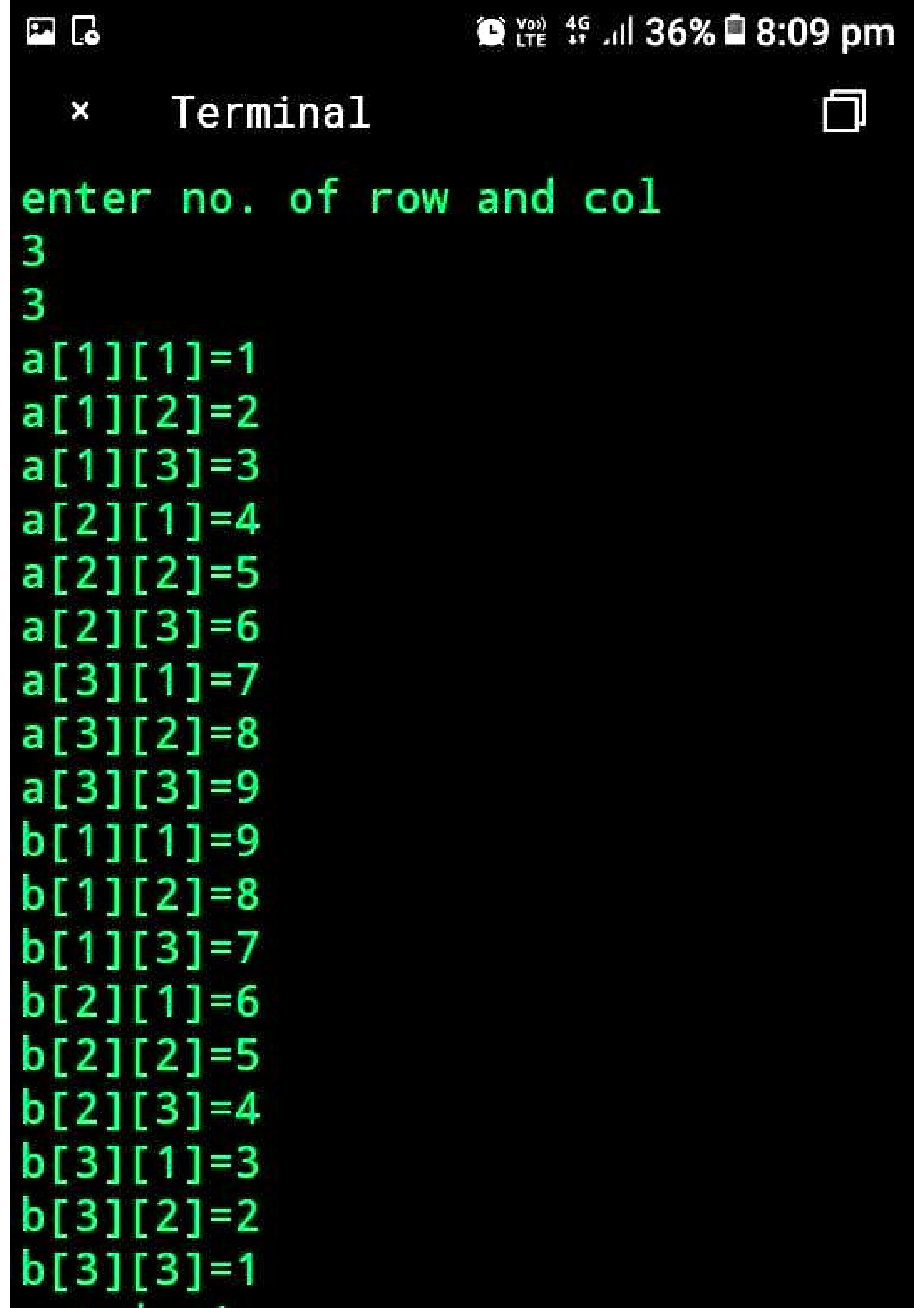

38% 8:00 pm
Terminal
1 2 3
4 5 6
7 8 9
Process finished.

ix using pointer.c

Saved

```c
#include <stdio.h>
/* ABDUL QADIR BOXWALA   CSE
Sec F    AB-15011     ans8 */
int main()
{
   int i,j,r,c;
   int a[10][10],b[10][10],s[10][10];
   printf("enter no. of row and col\n");
   scanf("%d %d",&r,&c);
   //input matrix1
   for(i=0;i<r;i++){
      for(j=0;j<c;j++){
         printf("a[%d][%d]=",i+1,j+1);
         scanf("%d",&a[i][j]);
      }
   }
   //input matrix2
   for(i=0;i<r;i++){
      for(j=0;j<c;j++){
         printf("b[%d][%d]=",i+1,j+1);
         scanf("%d",&b[i][j]);
      }
   }
```

```
    //print matrix1
    printf("matrix 1\n");
    for(i=0;i<r;i++){
      for(j=0;j<c;j++){
        printf("%2d\t",a[i][j]);
      }
      printf("\n");
    }
    //print matrix2
    printf("matrix 2\n");
    for(i=0;i<r;i++){
      for(j=0;j<c;j++){
        printf("%2d\t",b[i][j]);
      }
      printf("\n");
    }
    //addition
    for(i=0;i<r;i++){
      for(j=0;j<c;j++){
        *(*(s+i)+j)=*(*(a+i)+j)+*(*(b+i)+j);
        printf("%2d\t",s[i][j]);
        }
      printf("\n");
    }
    return 0;
}
```


36% 8:09 pm
Terminal
enter no. of row and col
3
3
a[1][1]=1
a[1][2]=2
a[1][3]=3
a[2][1]=4
a[2][2]=5
a[2][3]=6
a[3][1]=7
a[3][2]=8
a[3][3]=9
b[1][1]=9
b[1][2]=8
b[1][3]=7
b[2][1]=6
b[2][2]=5
b[2][3]=4
b[3][1]=3
b[3][2]=2
b[3][3]=1

```
matrix 1
 1  2  3
 4  5  6
 7  8  9
matrix 2
 9  8  7
 6  5  4
 3  2  1
10 10 10
10 10 10
10 10 10

Process finished.
```