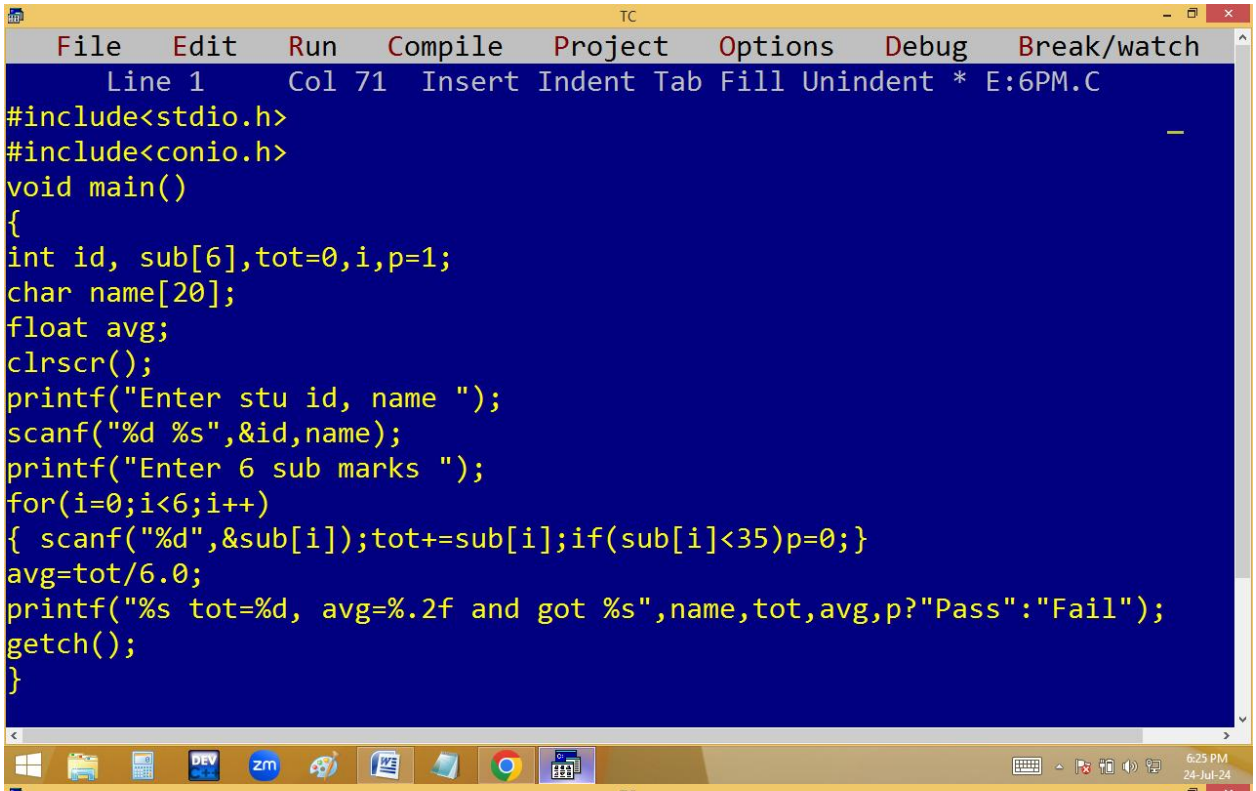
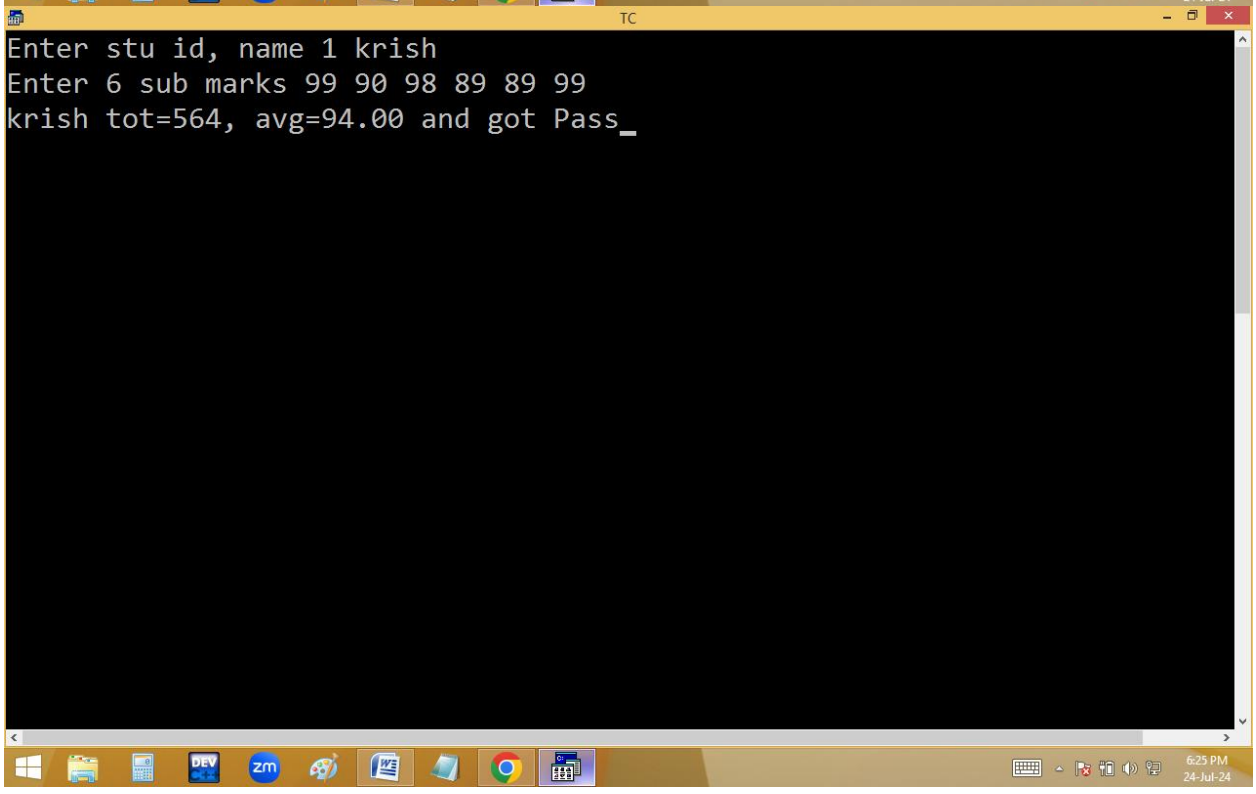
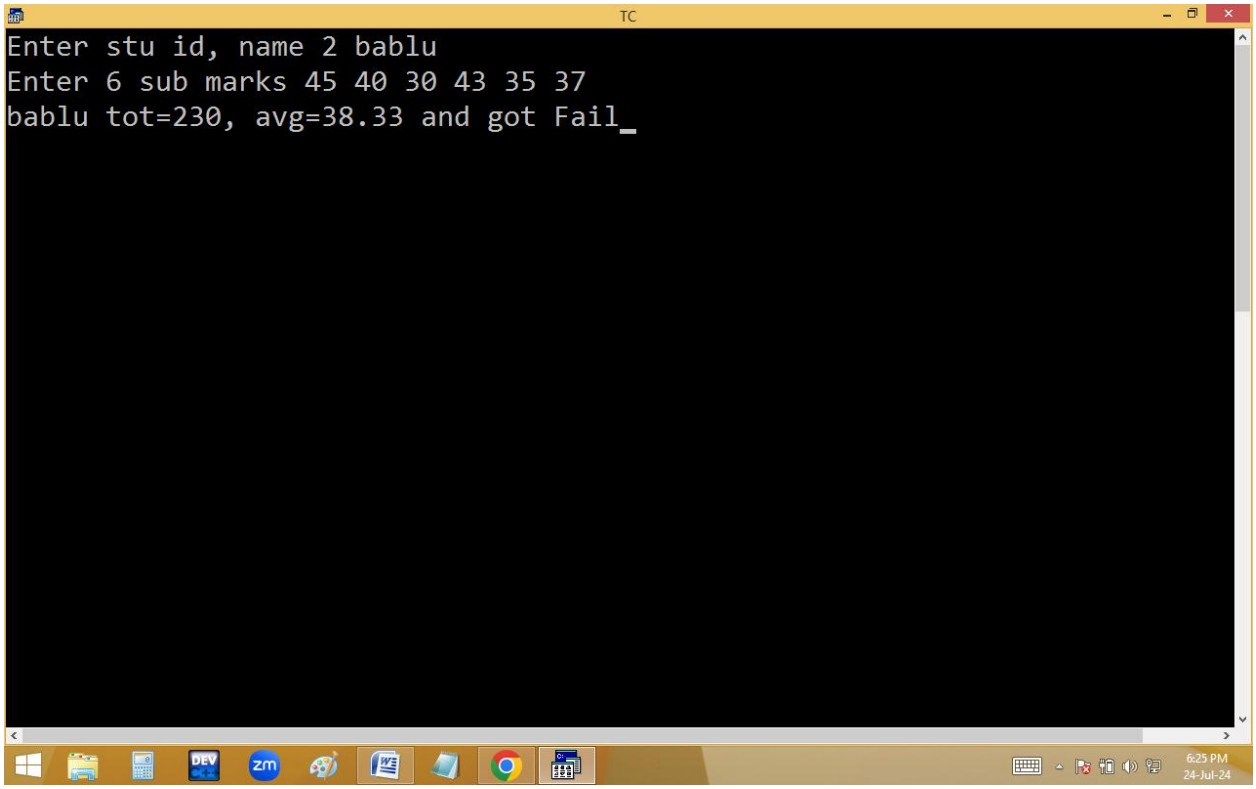
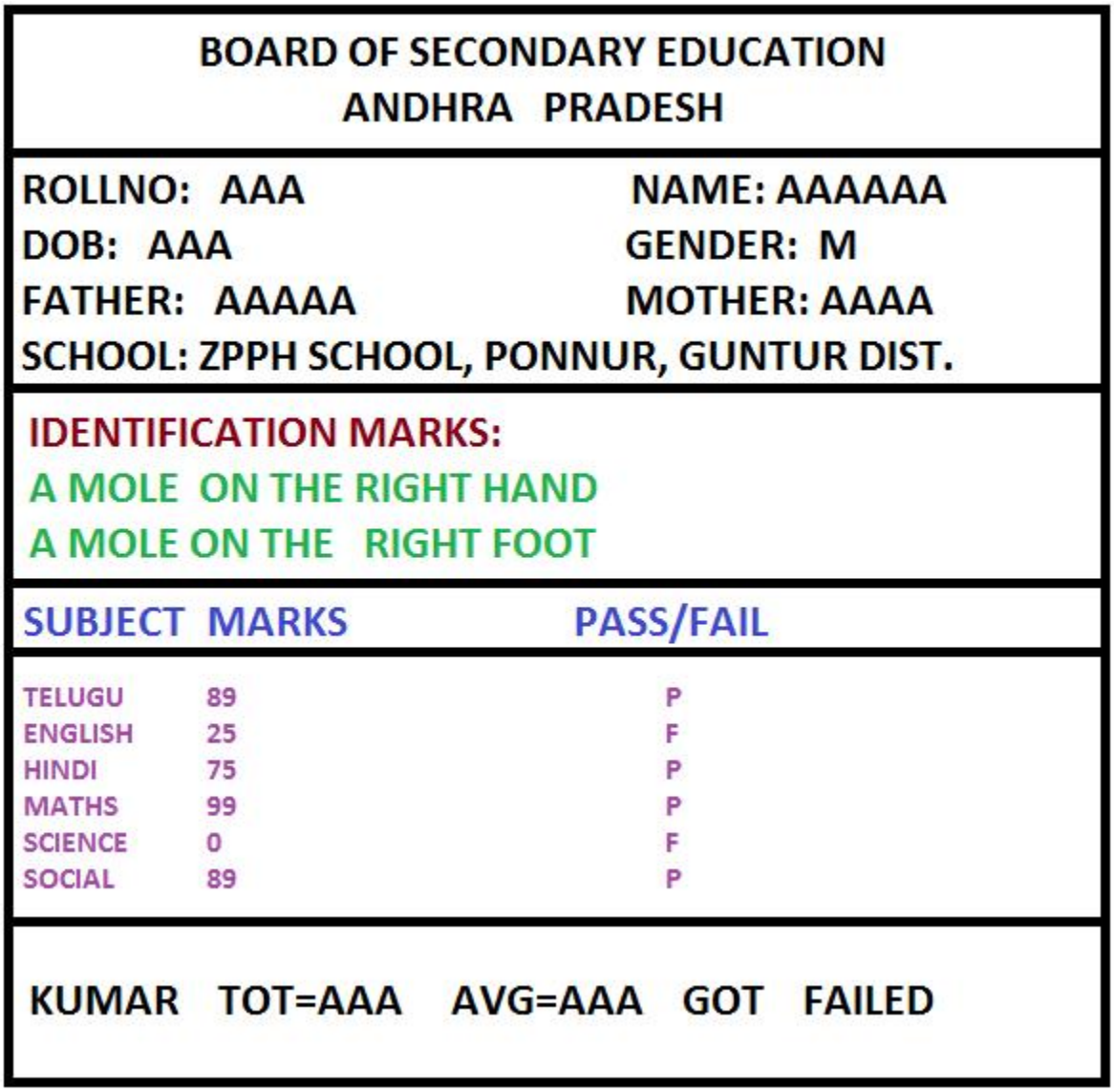
Finding stu result using array:


TC
File Edit Run Compile Project Options Debug Break/watch
Line 1 Col 71 Insert Indent Tab Fill Unindent * E:6PM.C
#include<stdio.h>
#include<conio.h>
void main()
{
int id, sub[6],tot=0,i,p=1;
char name[20];
float avg;
clrscr();
printf("Enter stu id, name ");
scanf("%d %s",&id,name);
printf("Enter 6 sub marks ");
for(i=0;i<6;i++)
{ scanf("%d",&sub[i]);tot+=sub[i];if(sub[i]<35)p=0;}
avg=tot/6.0;
printf("%s tot=%d, avg=%.2f and got %s",name,tot,avg,p?"Pass":"Fail");
getch();
}


TC
Enter stu id, name 1 krish
Enter 6 sub marks 99 90 98 89 89 99
krish tot=564, avg=94.00 and got Pass

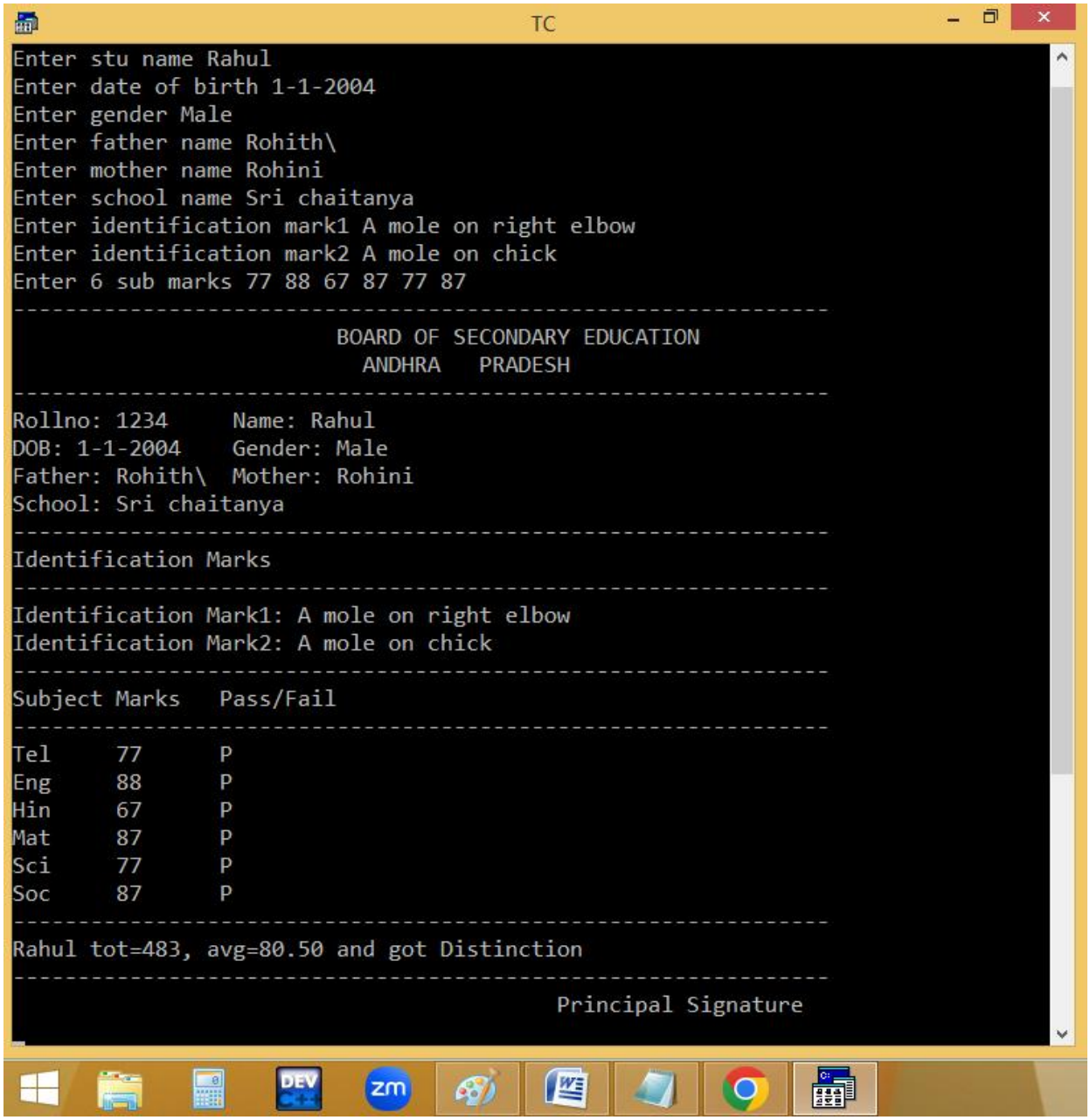

TC
Enter stu id, name 2 bablu
Enter 6 sub marks 45 40 30 43 35 37
bablu tot=230, avg=38.33 and got Fail
6:25 PM
24-Jul-24

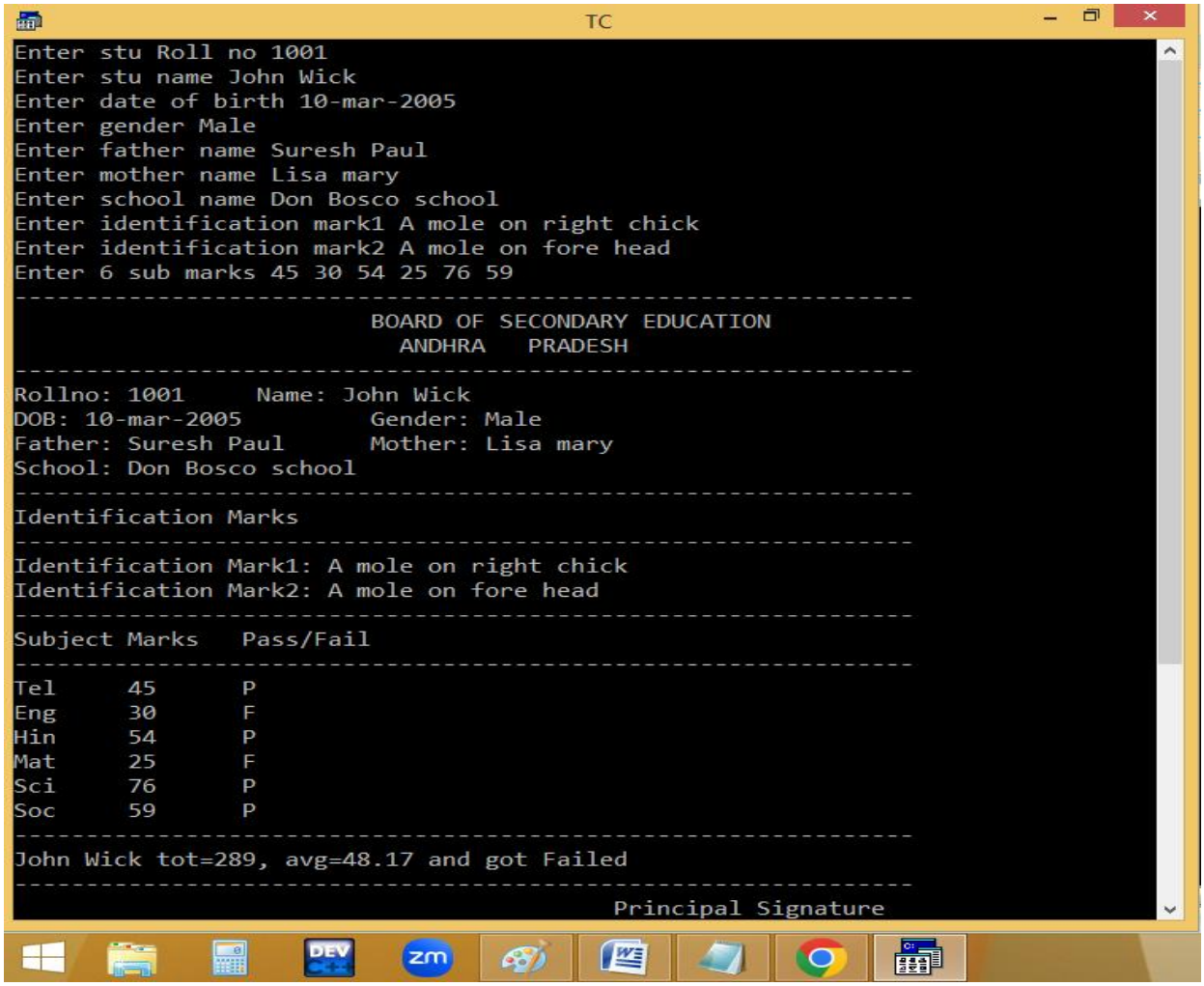



```
#include<stdio.h>

#include<conio.h>

void main()

{

int rollno, sub[6],tot=0,i,p=1;

char name[20], dob[20], gender[10],father[20],mother[20],school[30],

id1[30], id2[30], subject[6][10]={"Tel","Eng","Hin","Mat","Sci","Soc"};

float avg;
```

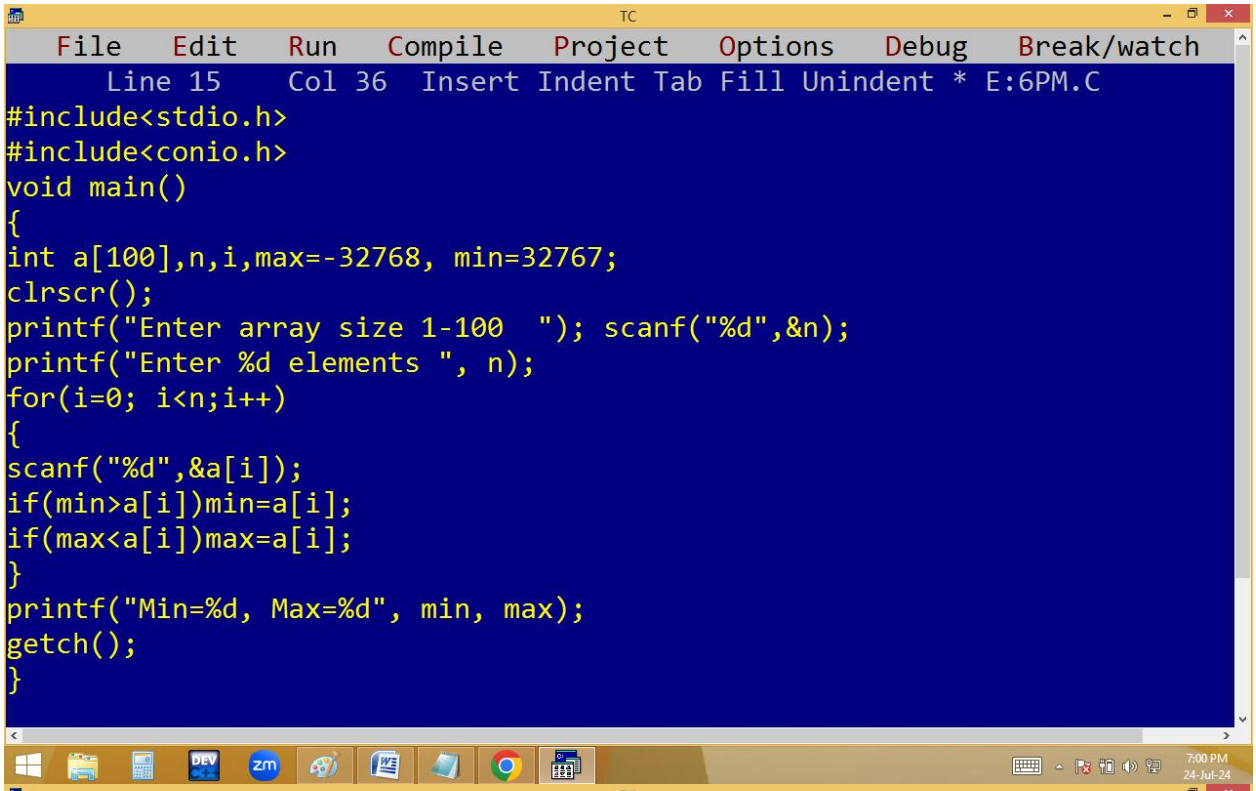
```
clrscr();
printf("Enter stu Roll no ");scanf("%d",&rollno);
flushall();printf("Enter stu name "); gets(name);
printf("Enter date of birth "); gets(dob);
printf("Enter gender "); gets(gender);
printf("Enter father name "); gets(father);
printf("Enter mother name "); gets(mother);
printf("Enter school name "); gets(school);
printf("Enter identification mark1 "); gets(id1);
printf("Enter identification mark2 "); gets(id2);
printf("Enter 6 sub marks ");
for(i=0;i<6;i++)
{ scanf("%d",&sub[i]);tot+=sub[i];if(sub[i]<35)p=0;}
avg=tot/6.0;
puts("----------------------------------------------------------------");
puts("\t\t\t BOARD OF SECONDARY EDUCATION ");
puts("\t\t\t   ANDHRA   PRADESH");
puts("----------------------------------------------------------------");
printf("Rollno: %d\t Name: %s\n",rollno,name);
printf("DOB: %s\t Gender: %s\n",dob,gender);
printf("Father: %s\t Mother: %s\n",father,mother);
printf("School: %s\n",school);
puts("----------------------------------------------------------------");
puts("Identification Marks");
puts("----------------------------------------------------------------");
```

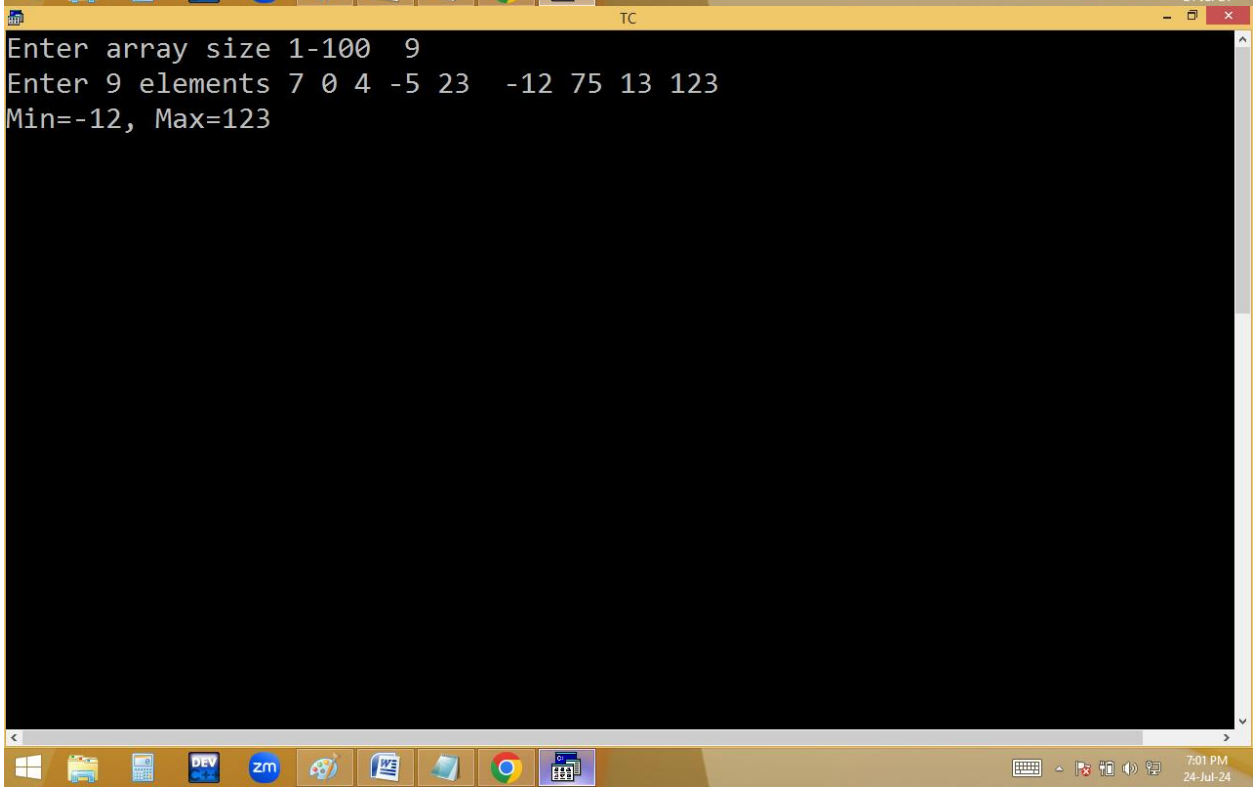
```
printf("Identification Mark1: %s\n",id1);
printf("Identification Mark2: %s\n",id2);
puts("------------------------------------------------------------");
puts("Subject\tMarks\tPass/Fail");
puts("------------------------------------------------------------");
for(i=0;i<6;i++)
printf("%s\t%d\t%s\n",subject[i],sub[i],sub[i]>=35?"P":"F");
puts("------------------------------------------------------------");
printf("%s tot=%d, avg=%.2f and got ",name,tot,avg);
if(p==0)puts("Failed");
else if(avg>=75)puts("Distinction");
else if(avg>=60)puts("First Class");
else if(avg>=50)puts("Second Class");
else  puts("Third Class");
puts("------------------------------------------------------------");
puts("\t\t\t\t\t  Principal Signature ");
getch();
}
```


TC
Enter stu name Rahul
Enter date of birth 1-1-2004
Enter gender Male
Enter father name Rohith\
Enter mother name Rohini
Enter school name Sri chaitanya
Enter identification mark1 A mole on right elbow
Enter identification mark2 A mole on chick
Enter 6 sub marks 77 88 67 87 77 87
BOARD OF SECONDARY EDUCATION
ANDHRA PRADESH
Rollno: 1234 Name: Rahul
DOB: 1-1-2004 Gender: Male
Father: Rohith\ Mother: Rohini
School: Sri chaitanya
Identification Marks
Identification Mark1: A mole on right elbow
Identification Mark2: A mole on chick
Subject Marks Pass/Fail
Tel 77 P
Eng 88 P
Hin 67 P
Mat 87 P
Sci 77 P
Soc 87 P
Rahul tot=483, avg=80.50 and got Distinction
Principal Signature

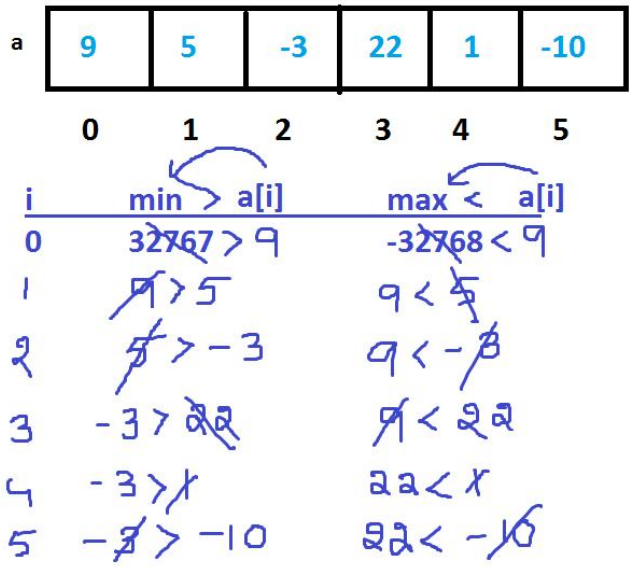


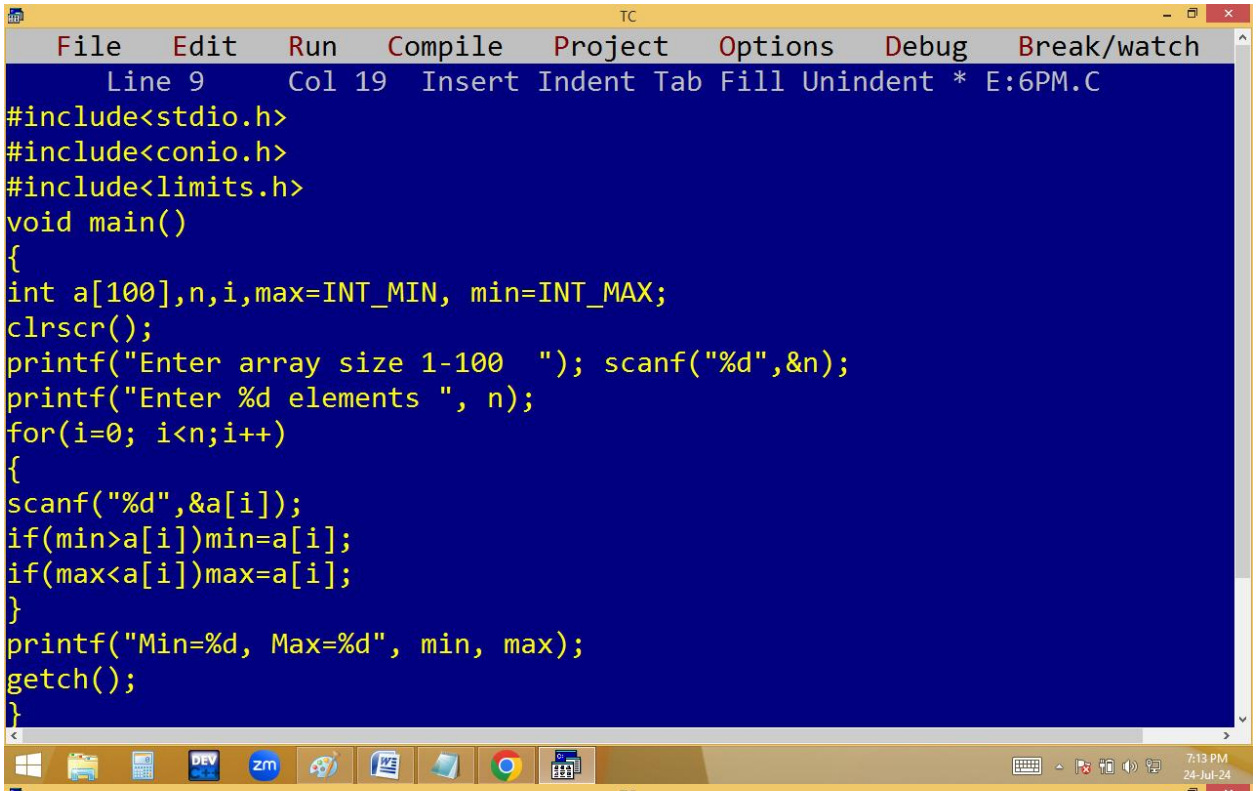
Read n elements in to array and find the max, min elements:

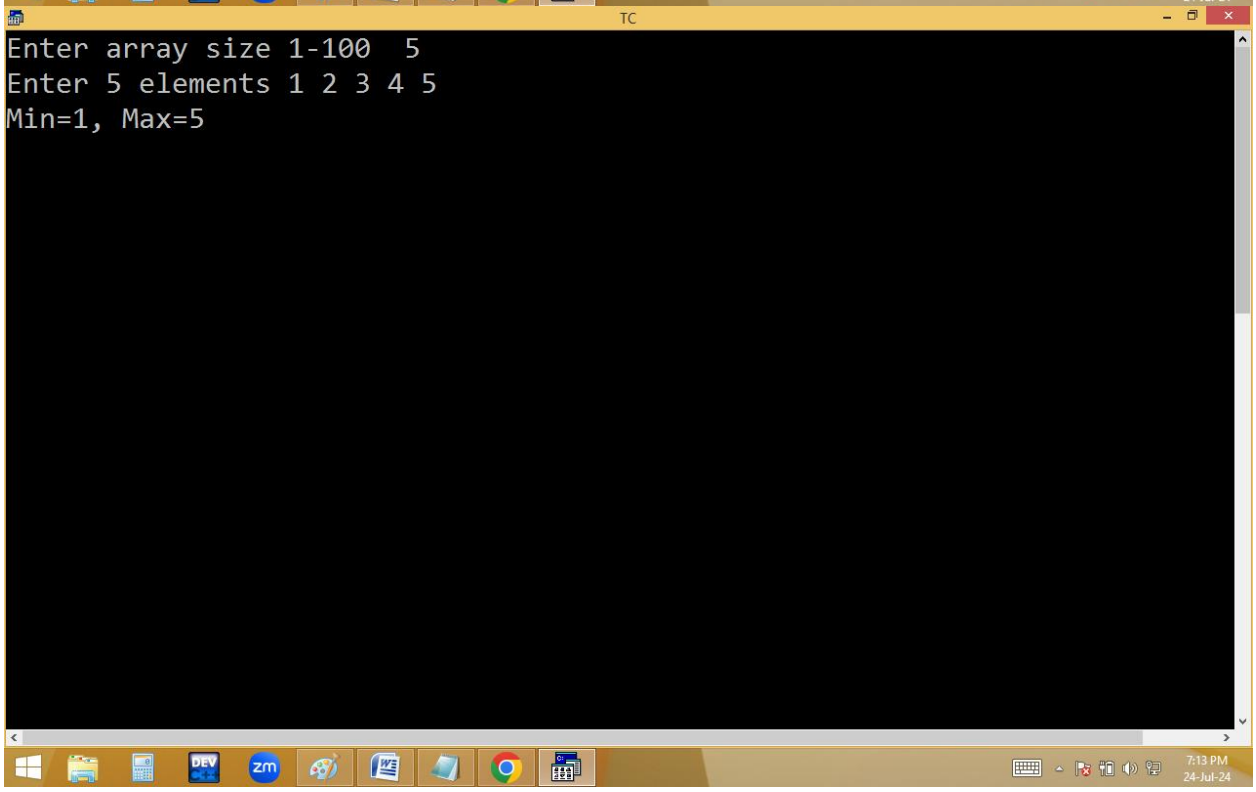

TC
File Edit Run Compile Project Options Debug Break/watch
Line 15 Col 36 Insert Indent Tab Fill Unindent * E:6PM.C
#include<stdio.h>
#include<conio.h>
void main()
{
int a[100],n,i,max=-32768, min=32767;
clrscr();
printf("Enter array size 1-100 "); scanf("%d",&n);
printf("Enter %d elements ", n);
for(i=0; i<n;i++)
{
scanf("%d",&a[i]);
if(min>a[i])min=a[i];
if(max<a[i])max=a[i];
}
printf("Min=%d, Max=%d", min, max);
getch();
}


TC
Enter array size 1-100 9
Enter 9 elements 7 0 4 -5 23 -12 75 13 123
Min=-12, Max=123

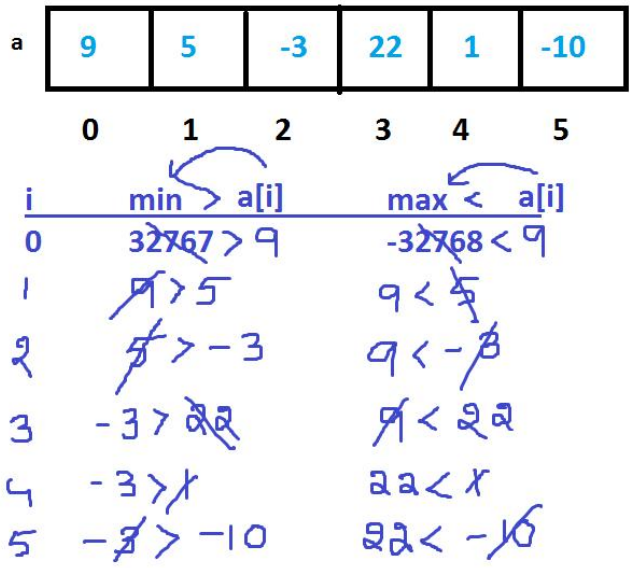
```
for(i=0;i<6;i++)
{
scanf("%d",&a[i];
if(min>a[i])min=a[i];
if(max<a[i])max=a[i];
}
p(min, max);
```




TC
File Edit Run Compile Project Options Debug Break/watch
Line 9 Col 19 Insert Indent Tab Fill Unindent * E:6PM.C
#include<stdio.h>
#include<conio.h>
#include<limits.h>
void main()
{
int a[100],n,i,max=INT_MIN, min=INT_MAX;
clrscr();
printf("Enter array size 1-100 "); scanf("%d",&n);
printf("Enter %d elements ", n);
for(i=0; i<n;i++)
{
scanf("%d",&a[i]);
if(min>a[i])min=a[i];
if(max<a[i])max=a[i];
}
printf("Min=%d, Max=%d", min, max);
getch();
}


TC
Enter array size 1-100 5
Enter 5 elements 1 2 3 4 5
Min=1, Max=5

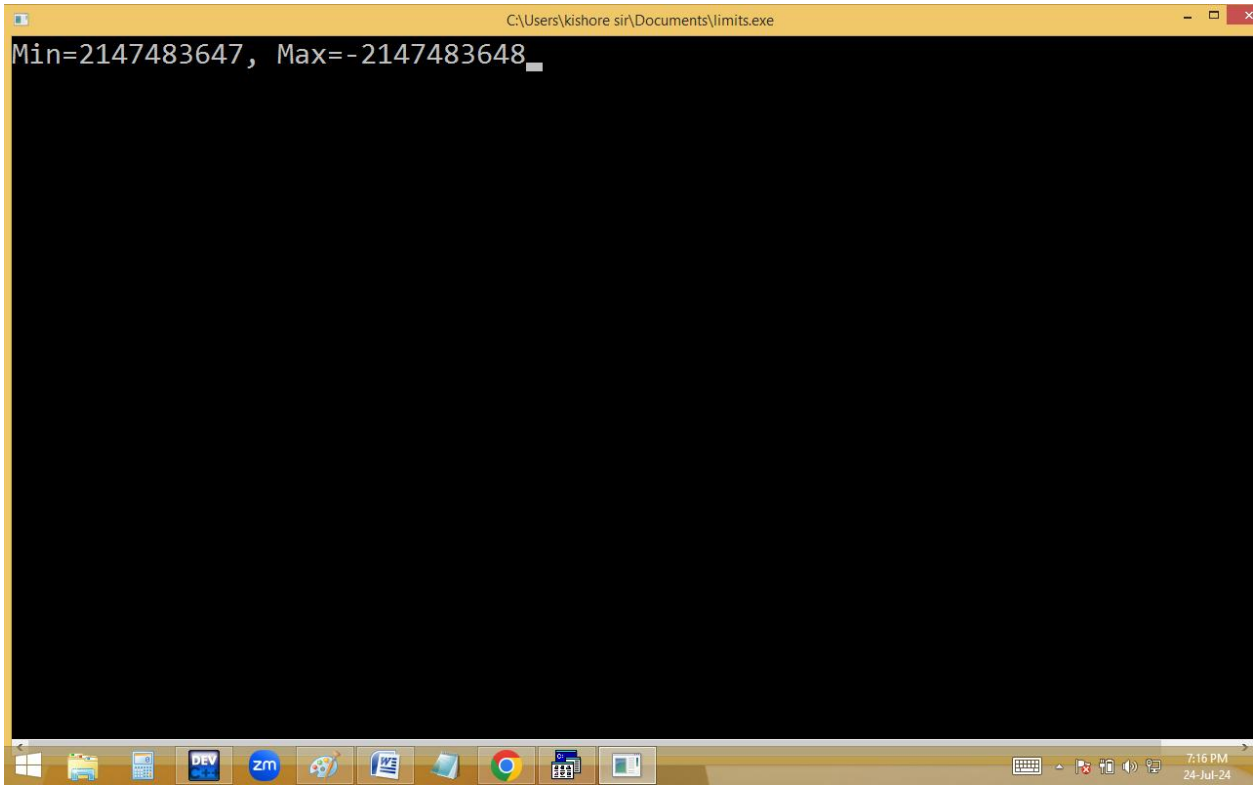
```
for(i=0;i<6;i++)
{
scanf("%d",&a[i];
if(min>a[i])min=a[i];
if(max<a[i])max=a[i];
}
p(min, max);
```



In other compilers:

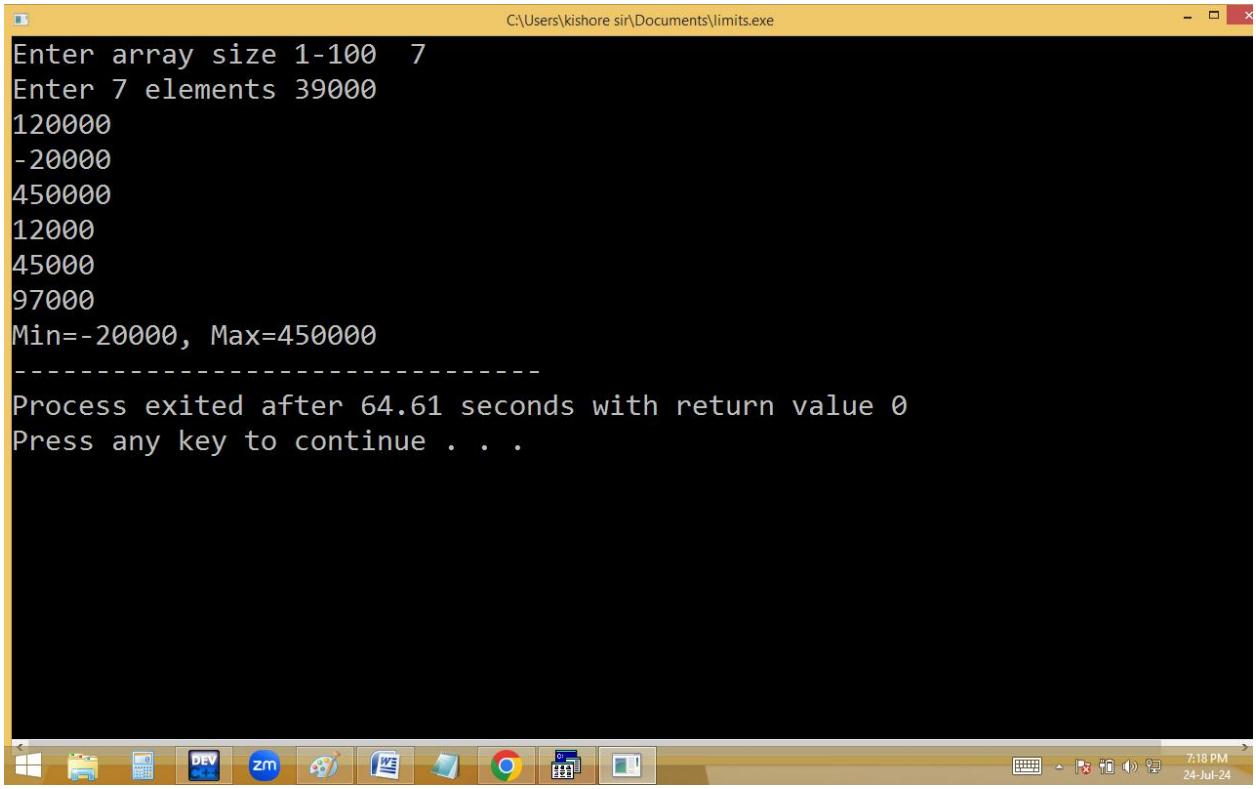
```
#include<stdio.h>

#include<conio.h>

#include<limits.h>

main()

{

int a[100],n,i,max=INT_MIN, min=INT_MAX;

/*

printf("Enter array size 1-100  "); scanf("%d",&n);

printf("Enter %d elements ", n);

for(i=0; i<n;i++)

{

scanf("%d",&a[i]);

if(min>a[i])min=a[i];
```

```
if(max<a[i])max=a[i];

}*/

printf("Min=%d, Max=%d", min, max);

getch();

}
```

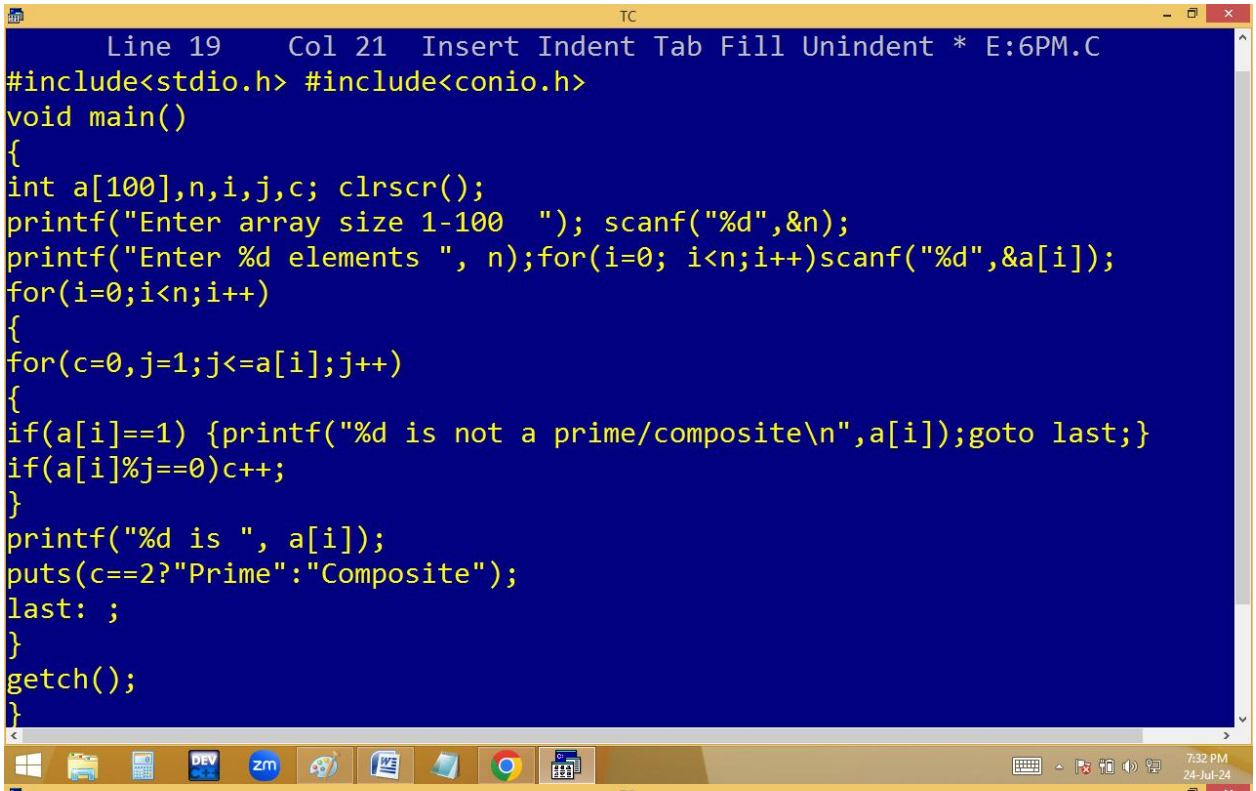


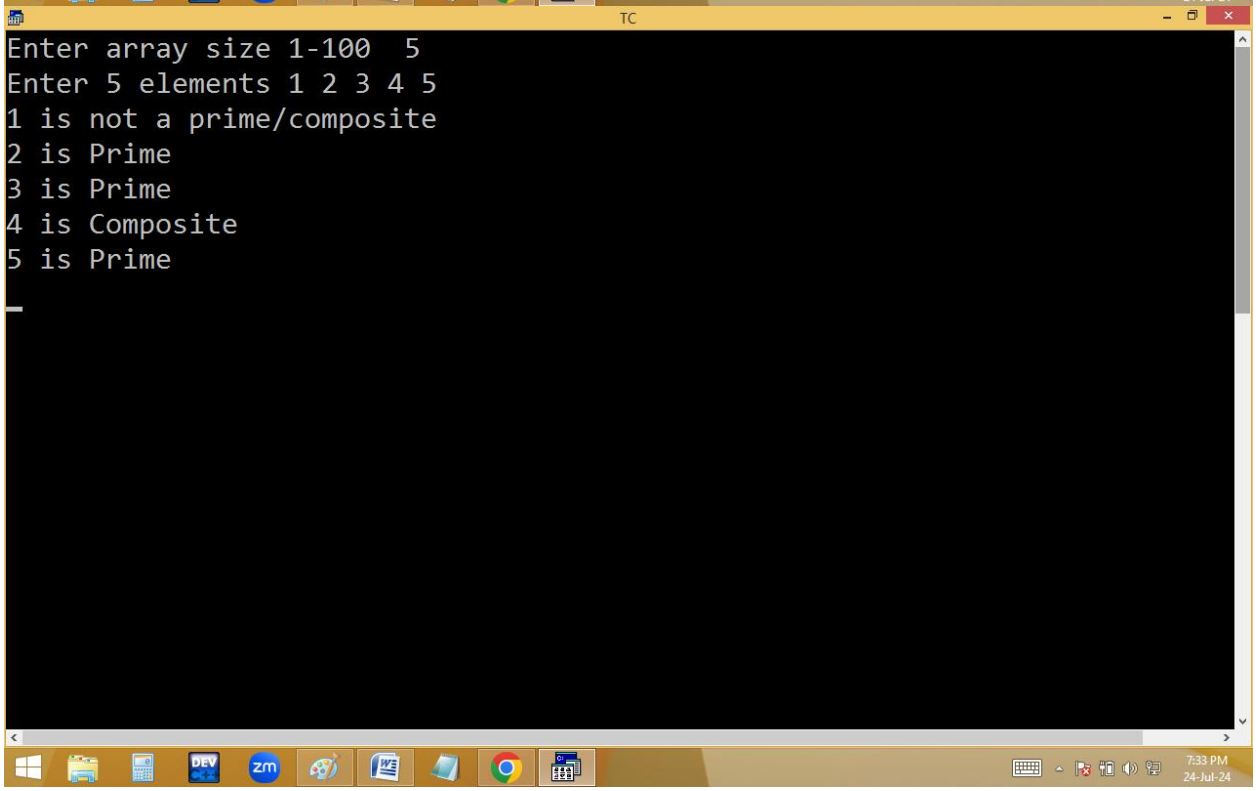

```
#include<stdio.h>

#include<conio.h>

#include<limits.h>

main()

{

int a[100],n,i,max=INT_MIN, min=INT_MAX;

printf("Enter array size 1-100  "); scanf("%d",&n);

printf("Enter %d elements ", n);
```

```
for(i=0; i<n;i++)

{

scanf("%d",&a[i]);

if(min>a[i])min=a[i];

if(max<a[i])max=a[i];

}

printf("Min=%d, Max=%d", min, max);

getch();

}
```

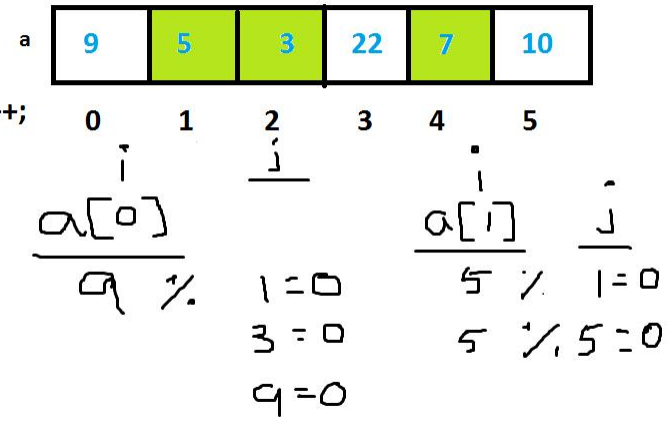


Finding prime/composite no's :


TC
Line 19 Col 21 Insert Indent Tab Fill Unindent * E:6PM.C
#include<stdio.h> #include<conio.h>
void main()
{
int a[100],n,i,j,c; clrscr();
printf("Enter array size 1-100 "); scanf("%d",&n);
printf("Enter %d elements ", n);for(i=0; i<n;i++)scanf("%d",&a[i]);
for(i=0;i<n;i++)
{
for(c=0,j=1;j<=a[i];j++)
{
if(a[i]==1) {printf("%d is not a prime/composite\n",a[i]);goto last;}
if(a[i]%j==0)c++;
}
printf("%d is ", a[i]);
puts(c==2?"Prime":"Composite");
last: ;
}
getch();
}


TC
Enter array size 1-100 5
Enter 5 elements 1 2 3 4 5
1 is not a prime/composite
2 is Prime
3 is Prime
4 is Composite
5 is Prime

```
for(i=0; i<6;i++)
{
for( c=0, j=1; j<=a[i];j++)if(a[i]%j==0)c++;
printf("%d " ,a[i]);
puts(c==2?"prime":"composite");
}
```



Home work:

Decimal to binary conversion

Eg: 20 ➔ 0000 0000 0001 0100