

TC

File Edit Run Compile Project Options Debug Break/watch

Edit

Error: Incompatible type conversion in function main

```
#include<stdio.h>
#include<conio.h>
void main()
{
int a[4]=9,i;
clrscr();
printf("Elements ");
for(i=0;i<4;i++)printf("%4d",a[i]);
getch();
}
/* Error */
```

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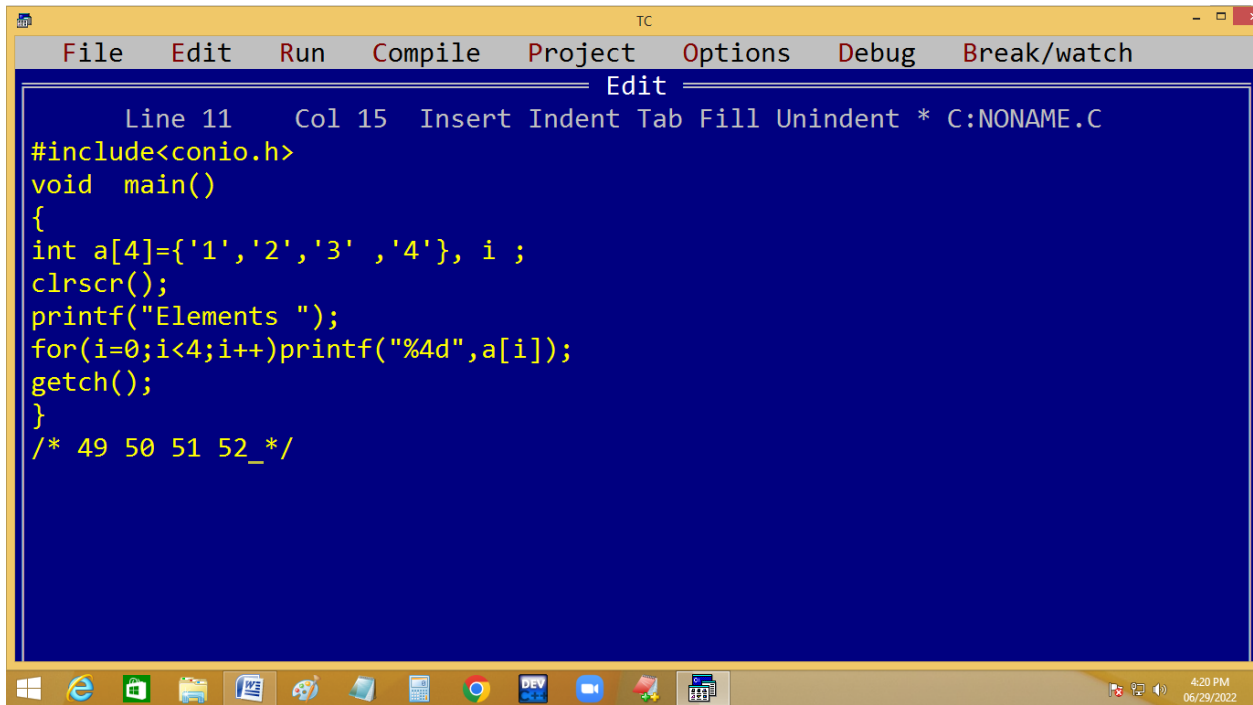
Error: Expression syntax in function main

```
#include<stdio.h>
#include<conio.h>
void main()
{
int a[4]={1,2, ,4}, i ;
clrscr();
printf("Elements ");
for(i=0;i<4;i++)printf("%4d",a[i]);
getch();
}
/* Error */
```

Message

Compiling C:\TCC\NONAME.C:

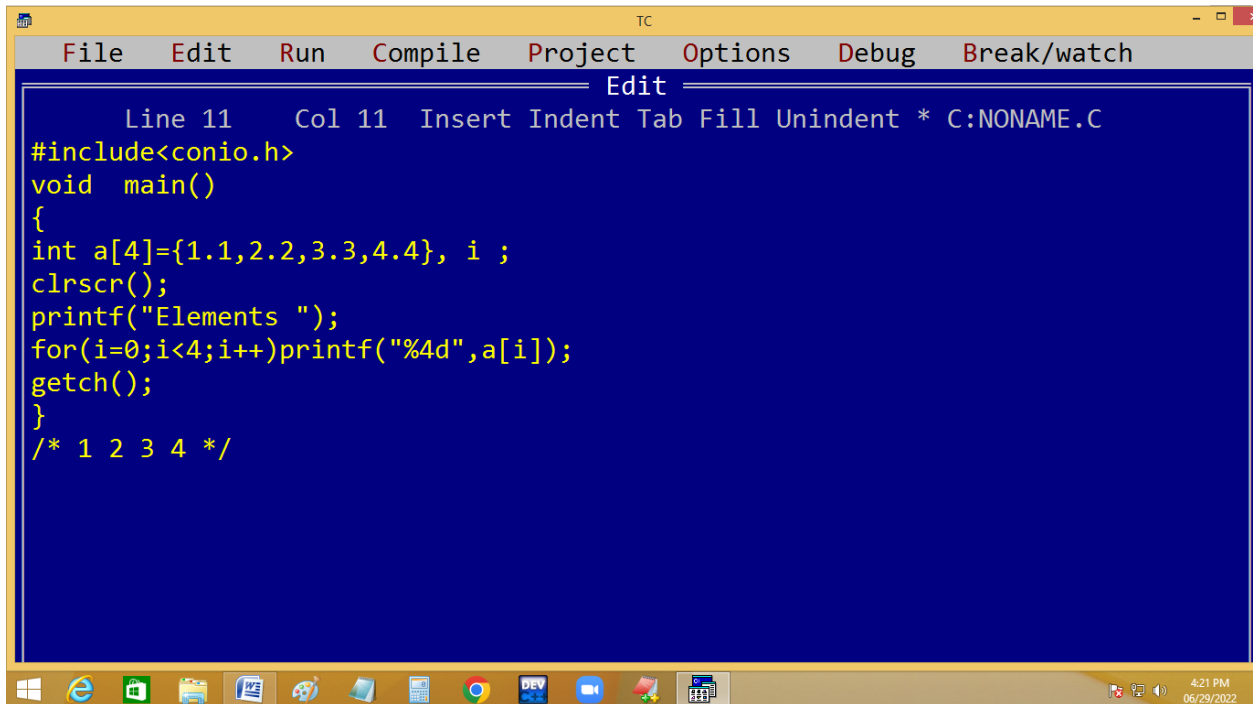
- Error C:\TCC\NONAME.C 5: Expression syntax in function main
- Error C:\TCC\NONAME.C 5: Declaration syntax error in function main
- Error C:\TCC\NONAME.C 5: Declaration missing ; in function main



The screenshot shows the Turbo C++ IDE with the following code in the editor:

```
Line 11   Col 15   Insert Indent Tab Fill Unindent * C:NONAME.C
#include<conio.h>
void main()
{
int a[4]={'1','2','3' ,'4'}, i ;
clrscr();
printf("Elements ");
for(i=0;i<4;i++)printf("%4d",a[i]);
getch();
}
/* 49 50 51 52_*/
```

The IDE interface includes a menu bar with File, Edit, Run, Compile, Project, Options, Debug, and Break/watch. The status bar at the bottom shows the time as 4:20 PM on 06/29/2022.



The screenshot shows the Turbo C++ IDE with the following code in the editor:

```
Line 11   Col 11   Insert Indent Tab Fill Unindent * C:NONAME.C
#include<conio.h>
void main()
{
int a[4]={1.1,2.2,3.3,4.4}, i ;
clrscr();
printf("Elements ");
for(i=0;i<4;i++)printf("%4d",a[i]);
getch();
}
/* 1 2 3 4 */
```

The IDE interface is identical to the first screenshot, with the status bar showing the time as 4:21 PM on 06/29/2022.

TC

File Edit Run Compile Project Options Debug Break/watch

Edit

Line 11 Col 16 Insert Indent Tab Fill Unindent * C:NONAME.C

```
#include<conio.h>
void main()
{
int a[4]={0>1,1>0,2*1,40000}, i ;
clrscr();
printf("Elements ");
for(i=0;i<4;i++)printf("%4d",a[i]);
getch();
}
/* 0 1 2 -25536_*/
```

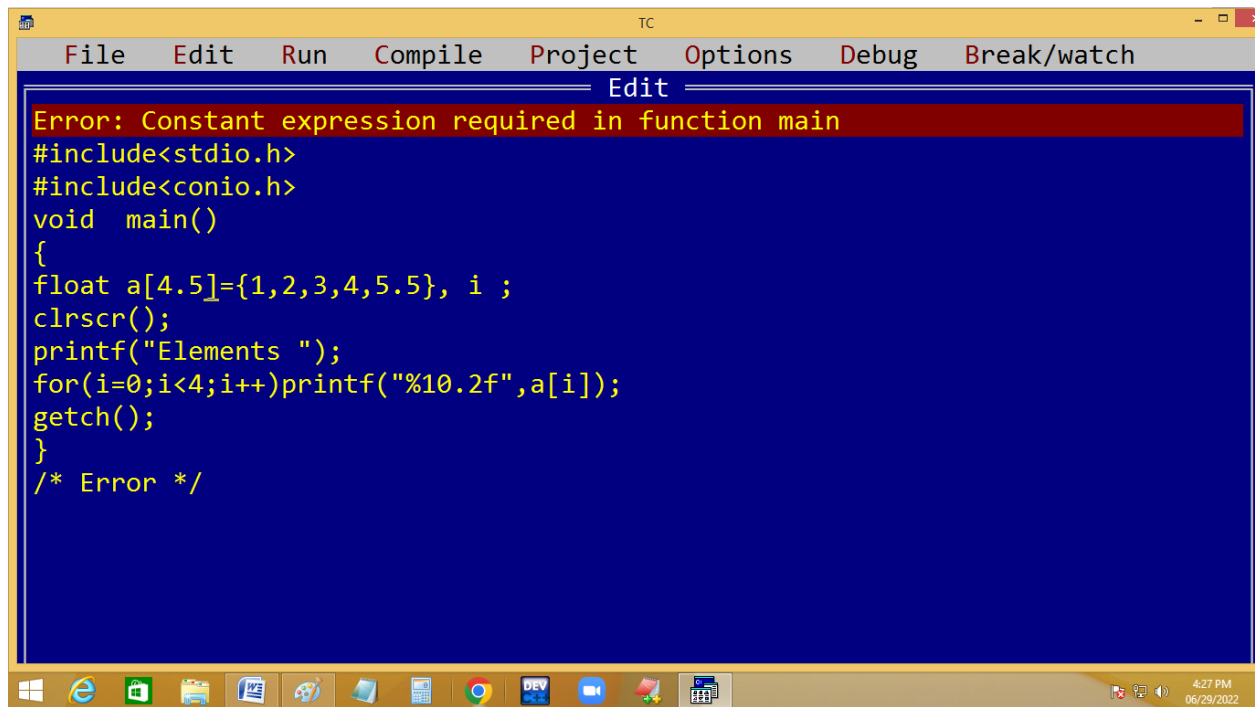
TC

File Edit Run Compile Project Options Debug Break/watch

Edit

Line 11 Col 20 Insert Indent Tab Fill Unindent * C:NONAME.C

```
#include<conio.h>
void main()
{
float a[4]={1,2,3,4}, i ;
clrscr();
printf("Elements ");
for(i=0;i<4;i++)printf("%10.2f",a[i]);
getch();
}
/*6spaces1.00,....._*/
```

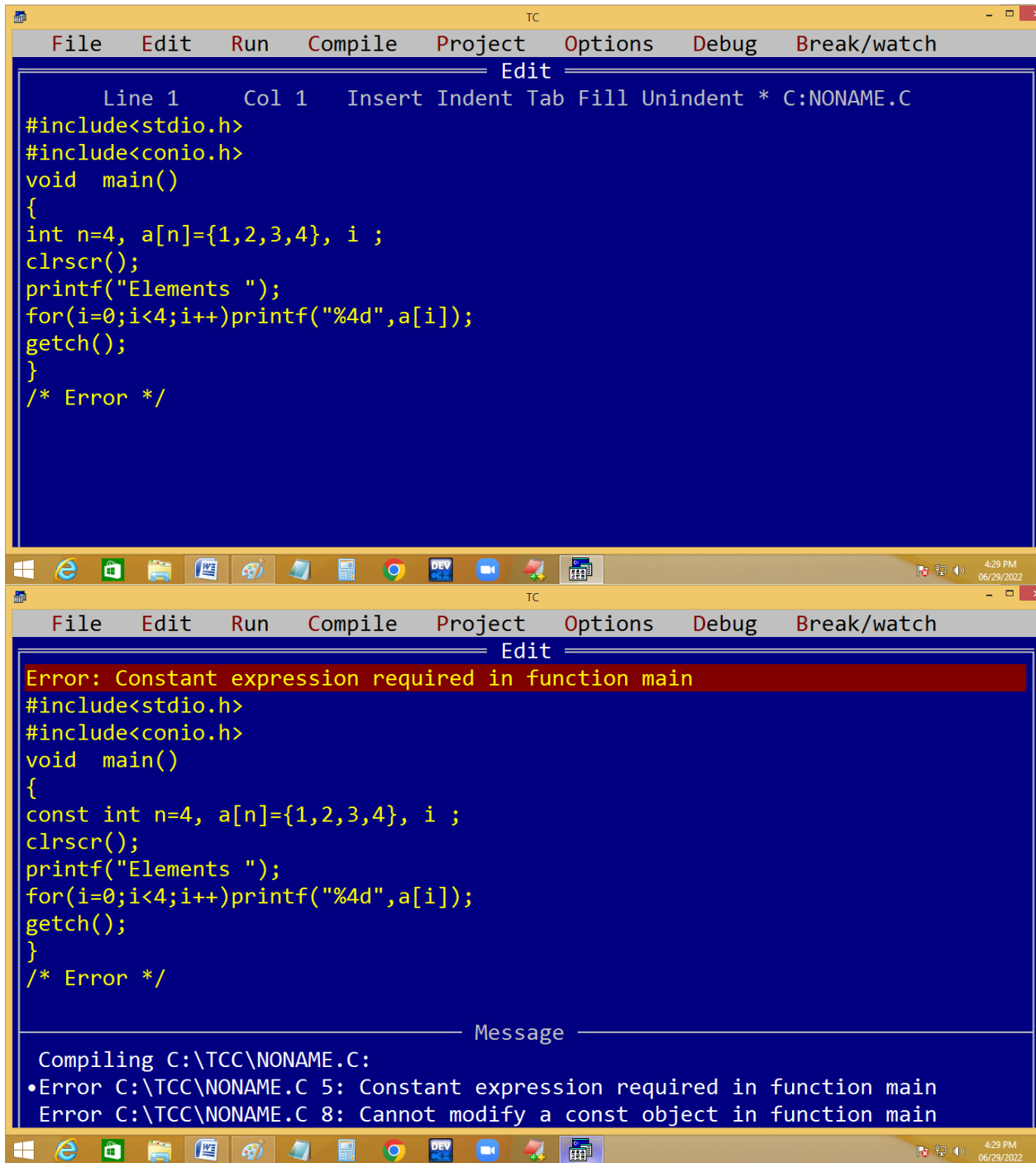


The image shows a screenshot of the Turbo C++ (TC) IDE. The window title is "TC". The menu bar includes "File", "Edit", "Run", "Compile", "Project", "Options", "Debug", and "Break/watch". The "Edit" menu is currently open. The main editing area has a blue background and displays the following C code:

```
Error: Constant expression required in function main
#include<stdio.h>
#include<conio.h>
void main()
{
float a[4.5]={1,2,3,4,5.5}, i ;
clrscr();
printf("Elements ");
for(i=0;i<4;i++)printf("%10.2f",a[i]);
getch();
}
/* Error */
```

The error message "Error: Constant expression required in function main" is displayed at the top of the code area. The code defines a float array `a` with a size of `4.5`, which is not a constant integer expression. The code also includes `clrscr()`, `printf`, `getch`, and a `for` loop.

The Windows taskbar is visible at the bottom, showing icons for various applications and the system clock indicating 4:27 PM on 06/29/2022.



TC

File Edit Run Compile Project Options Debug Break/watch

Edit

Line 12 Col 11 Insert Indent Tab Fill Unindent * C:NONAME.C

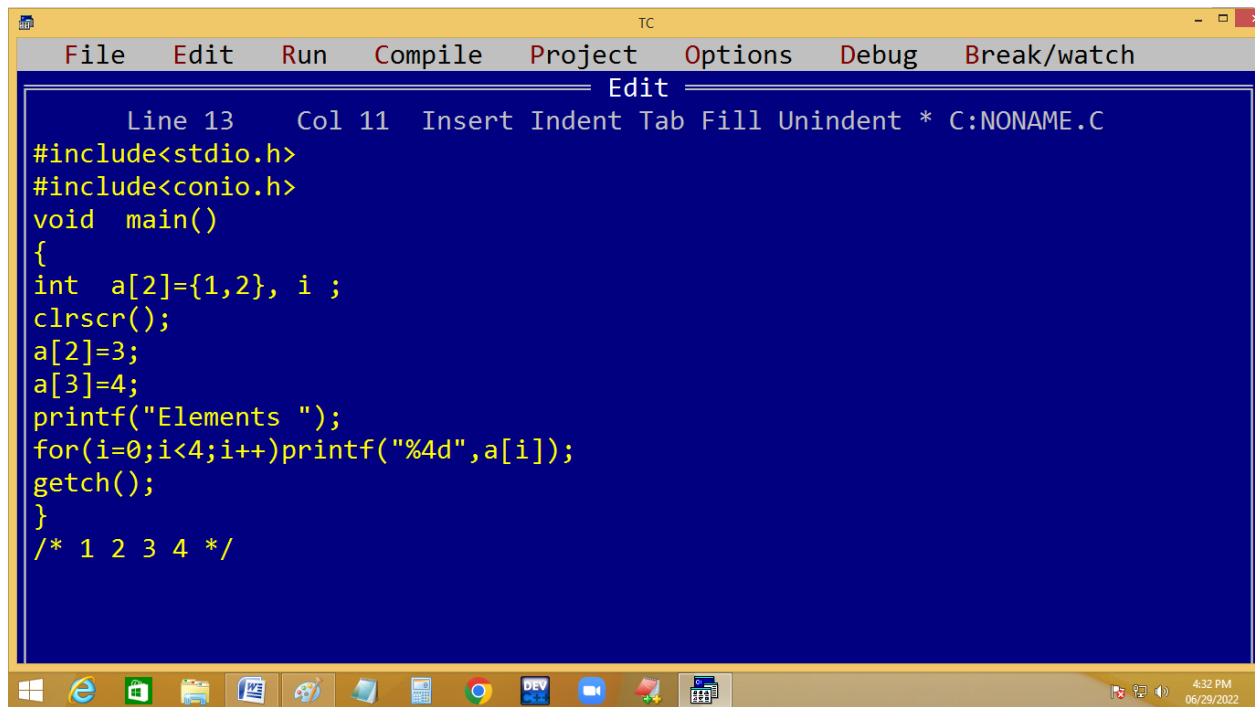
```
#include<stdio.h>
#include<conio.h>
#define n 4 /* macro */
void main()
{
    int a[n]={1,2,3,4}, i ;
    clrscr();
    printf("Elements ");
    for(i=0;i<4;i++)printf("%4d",a[i]);
    getch();
}
/* 1 2 3 4 */
```

TC

File Edit Run Compile Project Options Debug Break/watch

Error: Too many initializers in function main

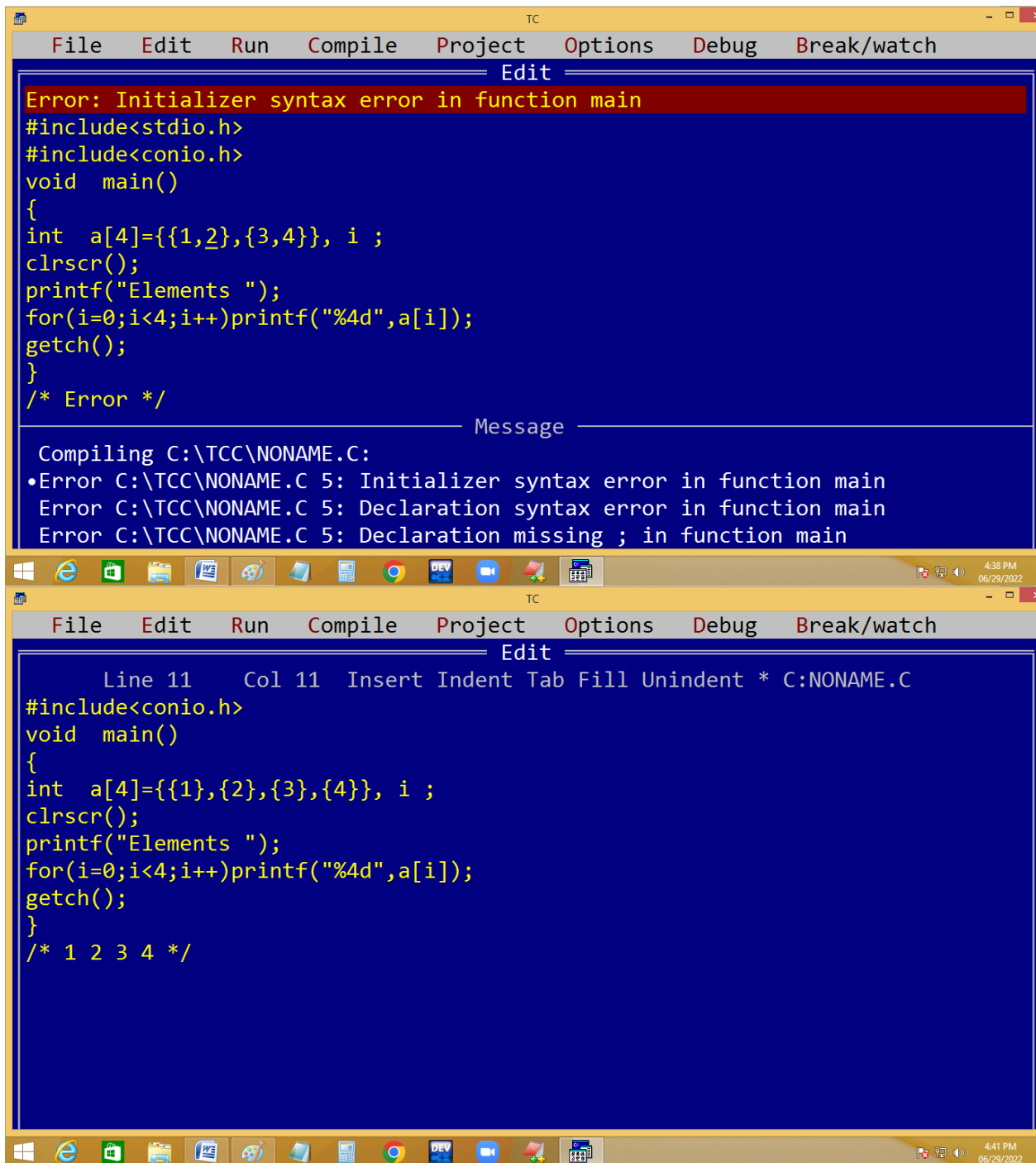
```
#include<stdio.h>
#include<conio.h>
void main()
{
    int a[2]={1,2,3,4}, i ;
    clrscr();
    printf("Elements ");
    for(i=0;i<4;i++)printf("%4d",a[i]);
    getch();
}
/* Error */
```

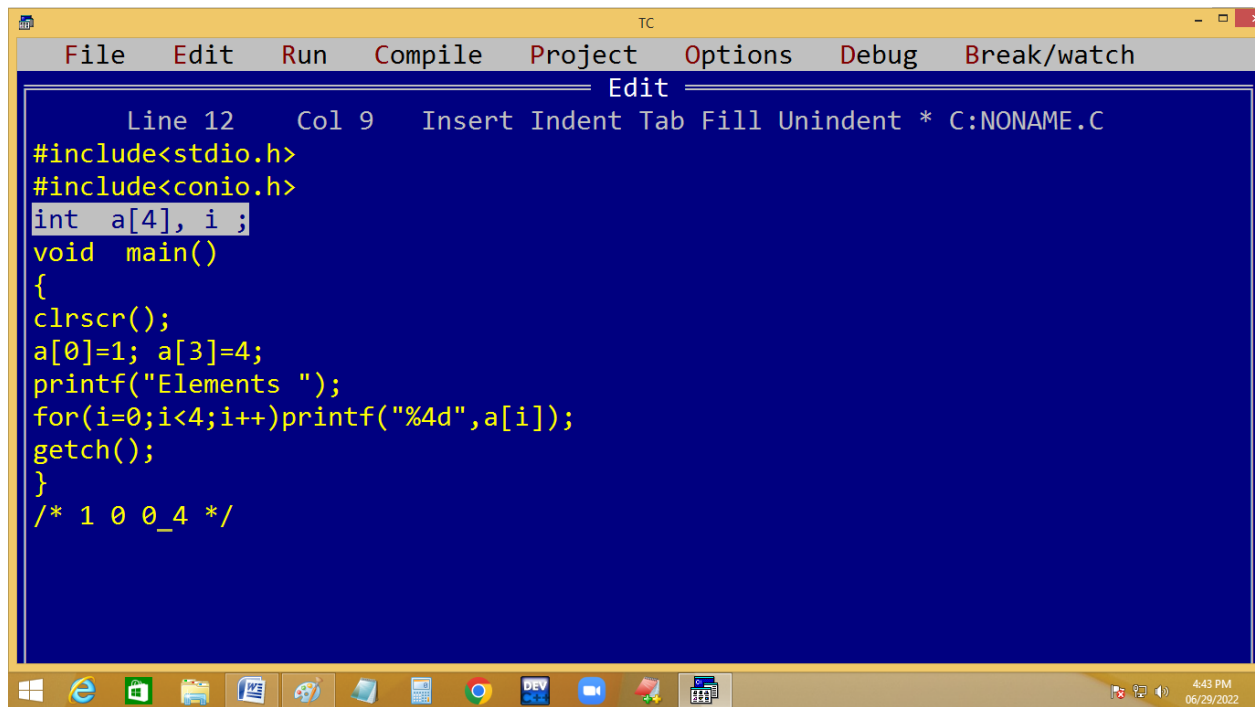


The image shows a screenshot of the Turbo C++ (TC) IDE. The window title is "TC". The menu bar includes "File", "Edit", "Run", "Compile", "Project", "Options", "Debug", and "Break/watch". The "Edit" menu is currently open, showing options: "Line 13", "Col 11", "Insert", "Indent", "Tab", "Fill", "Unindent", and "* C:NONAME.C". The main text area has a blue background and contains the following C code:

```
#include<stdio.h>
#include<conio.h>
void main()
{
int a[2]={1,2}, i ;
clrscr();
a[2]=3;
a[3]=4;
printf("Elements ");
for(i=0;i<4;i++)printf("%4d",a[i]);
getch();
}
/* 1 2 3 4 */
```

The Windows taskbar is visible at the bottom, showing icons for various applications including Internet Explorer, Word, and a calculator. The system clock in the bottom right corner displays "4:32 PM" and "06/29/2022".





```
TC
File Edit Run Compile Project Options Debug Break/watch
Edit
Line 12 Col 9 Insert Indent Tab Fill Unindent * C:NONAME.C
#include<stdio.h>
#include<conio.h>
int a[4], i ;
void main()
{
clrscr();
a[0]=1; a[3]=4;
printf("Elements ");
for(i=0;i<4;i++)printf("%4d",a[i]);
getch();
}
/* 1 0 0 4 */

4:43 PM
06/29/2022
```

TC

File Edit Run Compile Project Options Debug Break/watch

Edit

Line 11 Col 14 Insert Indent Tab Fill Unindent * C:NONAME.C

```
#include<stdio.h>
#include<conio.h>
void main()
{
int a[]={1},i;
clrscr();
printf("Elements ");
for(i=0;i<4;i++)printf("%4d",a[i]);
getch();
}
/* 1 gr gr gr_*/
```

TC

File Edit Run Compile Project Options Debug Break/watch

Edit

Line 11 Col 9 Insert Indent Tab Fill Unindent * C:NONAME.C

```
#include<stdio.h>
#include<conio.h>
void main()
{
int a[]={1},i;
clrscr();
printf("Elements ");
for(i=0;i<4;i++)printf("%4d",a[i]);
getch();
}
/* Error */
```

Message

The image shows two screenshots of the Turbo C++ (TC) IDE. The top screenshot displays a C program with a syntax error. The code is as follows:

```
Line 11 Col 11 Insert Indent Tab Fill Unindent * C:NONAME.C
#include<stdio.h>
#include<conio.h>
void main()
{
int a[9%5]={1,2,3,4},i;
clrscr();
printf("Elements ");
for(i=0;i<4;i++)printf("%4d",a[i]);
getch();
}
/* 1 2 3 4 */
```

The error message "Error: Array size too large in function main" is highlighted in red. The bottom screenshot shows the same code with the array size corrected to 35000:

```
#include<stdio.h>
#include<conio.h>
void main()
{
int a[35000]={1,2,3,4},i;
clrscr();
printf("Elements ");
for(i=0;i<4;i++)printf("%4d",a[i]);
getch();
}
/* 1 2 3 4 */
```

Eg. reading and printing elements of a one dimensional array.

The image shows a screenshot of the Turbo C++ (TC) IDE. The top window displays the source code for a C program named C:ARR.CPP. The code is as follows:

```
Line 5 Col 1 Insert Indent Tab Fill Unindent * C:ARR.CPP
#include<stdio.h>
#include<conio.h>
void main()
{
int a[100],n,i;
clrscr();
printf("Enter array size [ 1-100 ] ");scanf("%d",&n);
if(n<1||n>100)puts("Size 1-100 Only");
else
{
printf("Enter %d integers ",n);
for(i=0;i<n;i++)scanf("%d",&a[i]);
printf("Elements ");
for(i=0;i<n;i++)printf("%4d",a[i]);
}
getch();
}
```

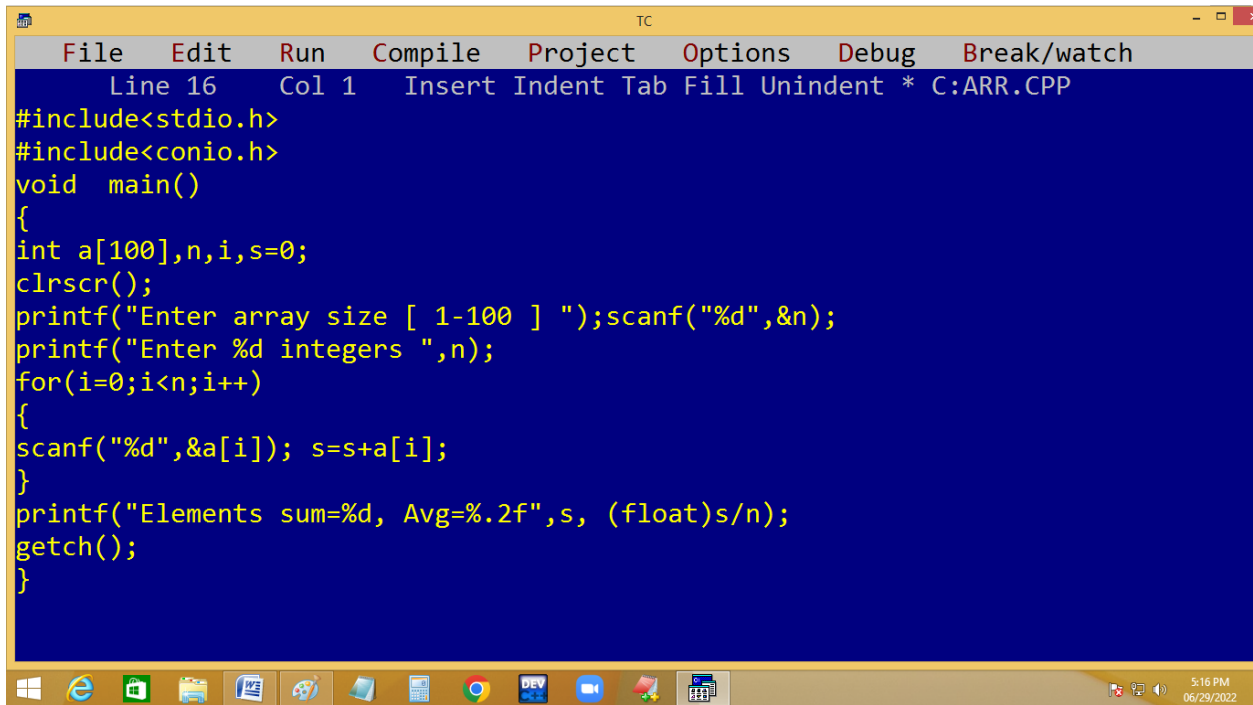
The bottom window shows the program's execution. It prompts the user to enter an array size, and the user has entered -5. The program outputs "Size 1-100 Only" because the input is outside the valid range of 1 to 100. The IDE's status bar at the bottom indicates the time is 5:01 PM on 06/29/2022.

The image displays two screenshots of a Turbo C++ (TC) IDE window. The top screenshot shows the initial state where the user is prompted to enter an array size. The prompt is "Enter array size [1-100] 101", and the user has entered "101". Below this, a message "Size 1-100 Only" is displayed. The bottom screenshot shows the next step in the program. The prompt is "Enter array size [1-100] 7", and the user has entered "7". Below this, the prompt is "Enter 7 integers 3 9 -5 0 7 -1 8", and the user has entered "3 9 -5 0 7 -1 8". The output line shows "Elements 3 9 -5 0 7 -1 8_" with a cursor at the end. The TC window title bar and the Windows taskbar are visible in both screenshots.

```
Enter array size [ 1-100 ] 101
Size 1-100 Only

Enter array size [ 1-100 ] 7
Enter 7 integers 3 9 -5 0 7 -1 8
Elements 3 9 -5 0 7 -1 8_
```

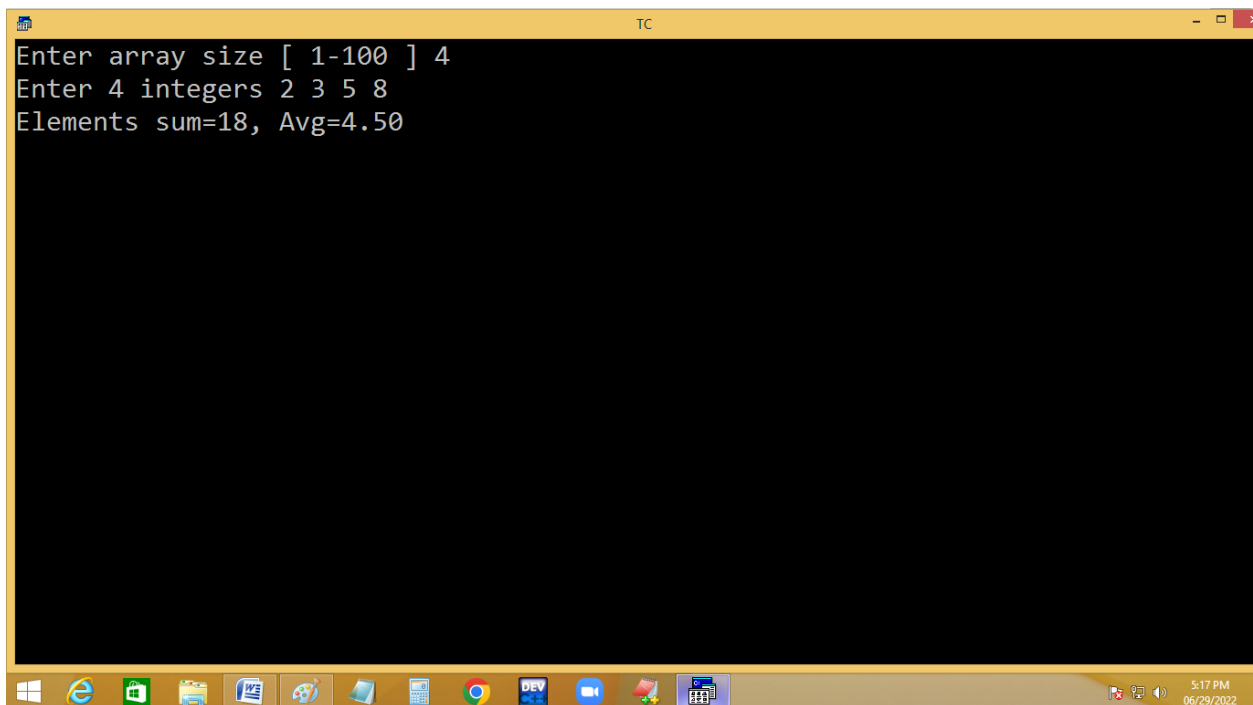
Eg. Read n elements into array and find the elements sum and mean [avg].



The screenshot shows the Turbo C++ (TC) IDE with a menu bar (File, Edit, Run, Compile, Project, Options, Debug, Break/watch) and a status bar (Line 16, Col 1, Insert, Indent, Tab, Fill, Unindent, * C:ARR.CPP). The code in the editor is as follows:

```
#include<stdio.h>
#include<conio.h>
void main()
{
int a[100],n,i,s=0;
clrscr();
printf("Enter array size [ 1-100 ] ");scanf("%d",&n);
printf("Enter %d integers ",n);
for(i=0;i<n;i++)
{
scanf("%d",&a[i]); s=s+a[i];
}
printf("Elements sum=%d, Avg=%.2f",s, (float)s/n);
getch();
}
```

The Windows taskbar at the bottom shows various application icons and the system clock indicating 5:16 PM on 06/29/2022.



The screenshot shows the Turbo C++ (TC) IDE with the same menu bar and status bar. The output window displays the following text:

```
Enter array size [ 1-100 ] 4
Enter 4 integers 2 3 5 8
Elements sum=18, Avg=4.50
```

The Windows taskbar at the bottom shows the same application icons and the system clock indicating 5:17 PM on 06/29/2022.

Read n elements into array and find the even, odd, zero elements.

The image shows a screenshot of the Turbo C++ (TC) IDE. The top window displays the source code for a C program. The code includes headers for `stdio.h` and `conio.h`, and defines a `main` function. Inside `main`, an array `a` of size 100 is declared, along with counters `n`, `i`, `e`, `o`, and `z`. The program clears the screen, initializes the counters to zero, and prompts the user to enter an array size (1-100) and `n` integers. It then iterates through the array, counting even, odd, and zero elements. Finally, it prints the counts and waits for a key press.

```
Line 16 Col 1 Insert Indent Tab Fill Unindent * C:ARR.CPP
#include<stdio.h>
#include<conio.h>
void main()
{
int a[100],n,i,e,o,z;
clrscr();
e=o=z=0;
printf("Enter array size [ 1-100 ] ");scanf("%d",&n);
printf("Enter %d integers ",n);
for(i=0;i<n;i++)
{
scanf("%d",&a[i]);
if(a[i]==0)z++; else if(a[i]%2==0)e++; else o++;
}
printf("Even=%d, Odd=%d, Zero=%d",e,o,z);
getch();
}
```

The bottom window shows the program's execution. It prompts for the array size (4) and the integers (2 3 0 8). The output shows the counts: Even=2, Odd=1, Zero=1.

```
Enter array size [ 1-100 ] 4
Enter 4 integers 2 3 0 8
Even=2, Odd=1, Zero=1_
```

Eg. read n elements into array and find the max , min elements

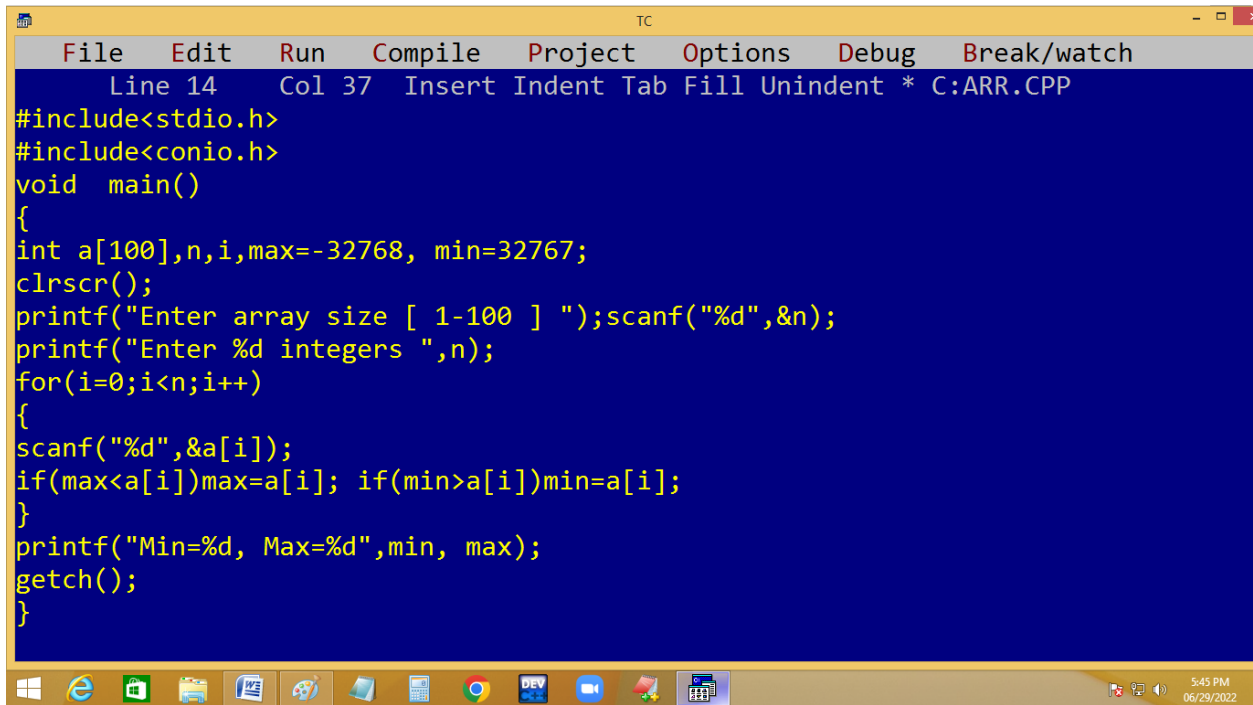
The image shows a screenshot of the Turbo C++ (TC) IDE. The top window displays the source code for a C program named C:ARR.CPP. The code is as follows:

```
Line 14 Col 37 Insert Indent Tab Fill Unindent * C:ARR.CPP
#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 integers ",n);
for(i=0;i<n;i++)
{
scanf("%d",&a[i]);
if(max<a[i])max=a[i]; if(min>a[i])min=a[i];
}
printf("Min=%d, Max=%d",min, max); _
getch();
}
```

The bottom window shows the program's execution. It prompts the user to enter the array size and the integers. The user has entered 4 for the size and 2 3 0 8 for the integers. The program has calculated the minimum as 0 and the maximum as 8.

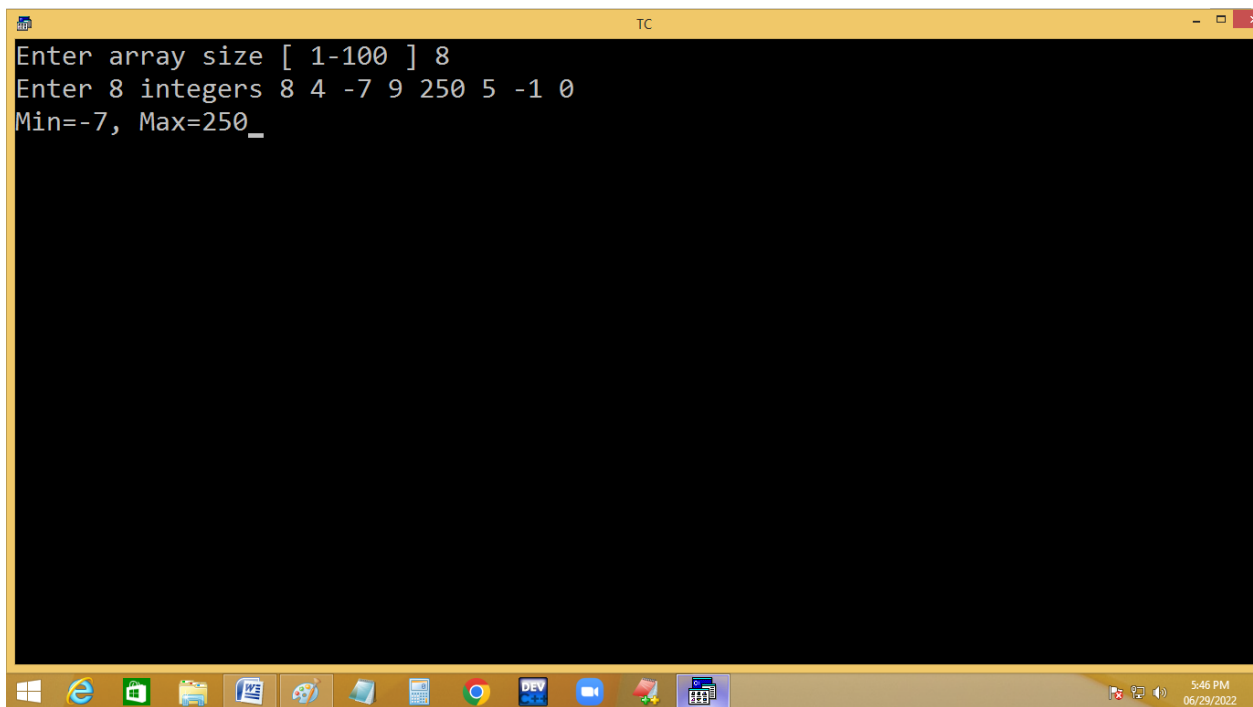
```
Enter array size [ 1-100 ] 4
Enter 4 integers 2 3 0 8
Min=0, Max=8_
```

The Windows taskbar at the bottom shows the time as 5:44 PM on 06/29/2022.



The screenshot shows the Turbo C++ (TC) IDE with a menu bar (File, Edit, Run, Compile, Project, Options, Debug, Break/watch) and a toolbar. The code is displayed on a blue background. The code defines an array of 100 integers, reads an array size 'n' from the user, and then reads 'n' integers. It calculates the minimum and maximum values of the array and prints them. The status bar at the bottom shows the file path as C:\ARR.CPP and the time as 5:45 PM on 06/29/2022.

```
Line 14 Col 37 Insert Indent Tab Fill Unindent * C:ARR.CPP
#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 integers ",n);
for(i=0;i<n;i++)
{
scanf("%d",&a[i]);
if(max<a[i])max=a[i]; if(min>a[i])min=a[i];
}
printf("Min=%d, Max=%d",min, max);
getch();
}
```



The screenshot shows the Turbo C++ (TC) IDE with the same menu bar and toolbar. The output of the program is displayed on a black background. The user has entered an array size of 8 and the integers 8, 4, -7, 9, 250, 5, -1, and 0. The program has calculated the minimum value as -7 and the maximum value as 250. The status bar at the bottom shows the time as 5:46 PM on 06/29/2022.

```
Enter array size [ 1-100 ] 8
Enter 8 integers 8 4 -7 9 250 5 -1 0
Min=-7, Max=250_
```

Home work:

Read n elements into array and find the prime elements and count.

