

7. keywords are not allowed in names.

The screenshot shows the Turbo C++ IDE with a source file named 11AM.C. The code in the editor is:

```
#include<stdio.h>
void main()
{
int  while;
}
```

The cursor is at Line 4, Column 11. A compilation window is open, showing the following output:

```
Compiling

Main file: 11AM.C
Compiling: EDITOR → 11AM.C

Total      File
Lines compiled: 216    216
Warnings: 0           0
Errors: 1             1
```

The error message indicates that the keyword 'while' is not allowed as a variable name. The Windows taskbar at the bottom shows the time as 11:29 AM on 18-Jul-25.

The screenshot shows the Turbo C++ IDE with the same source file 11AM.C, but the variable name has been changed to 'WHILE' (uppercase). The code in the editor is:

```
#include<stdio.h>
void main()
{
int  WHILE;
}
```

The cursor is at Line 5, Column 11. The compilation window shows the following output:

```
Compiling

Main file: 11AM.C
Compiling: EDITOR → 11AM.C

Total      File
Lines compiled: 218    218
Warnings: 0           0
Errors: 0             0
```

The compilation is now successful with zero errors. The Windows taskbar at the bottom shows the time as 11:30 AM on 18-Jul-25.

8. Name may contain up to 32 characters and excess characters ignored by the compiler.

TC

File Edit Run Compile Project Options Debug Break/watch

Line 5 Col 1 Insert Indent Tab Fill Unindent * E:11AM.C

```
#include<stdio.h>
void main()
{
int  abcdefghijklmnopqrstuvwxyz1234567890;
}
```

Linking

EXE file : 11AM.EXE
Linking : LIB\CS.LIB

	Total	Link
Lines compiled:	218	PASS 2
Warnings:	0	0
Errors:	0	0

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11:34 AM 18-Jul-25

TC

File Edit Run Compile Project Options Debug Break/watch

Error: Redclaration of 'abcdefghijklmnopqrstuvwxyz123456' in function mai

```
#include<stdio.h>
void main()
{
int  abcdefghijklmnopqrstuvwxyz1234567890;
int  abcdefghijklmnopqrstuvwxyz123456;
}
```

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11:33 AM 18-Jul-25

The screenshot shows the Turbo C++ IDE with a C program. The code defines two integer arrays, each containing 26 characters of the alphabet followed by a sequence of numbers. The first array ends with 90, and the second ends with 45. The compilation window shows that the program was compiled successfully with 219 lines, 0 warnings, and 0 errors.

```
File Edit Run Compile Project Options Debug Break/watch
Line 5 Col 37 Insert Indent Tab Fill Unindent * E:11AM.C
#include<stdio.h>
void main()
{
int  abcdefghijklmnopqrstuvwxyz1234567890;
int  abcdefghijklmnopqrstuvwxyz12345;
}
```

Compiling

Main file: 11AM.C
Compiling: EDITOR → 11AM.C

	Total	File
Lines compiled:	219	219
Warnings:	0	0
Errors:	0	0

You are screen sharing

Note: It is recommended to write the c program in lower case only.

The screenshot shows the Turbo C++ IDE with a C program. The code includes stdio.h and uses printf to output the string "KISHORE". The compilation window shows that the program was compiled successfully with 218 lines, 0 warnings, and 0 errors.

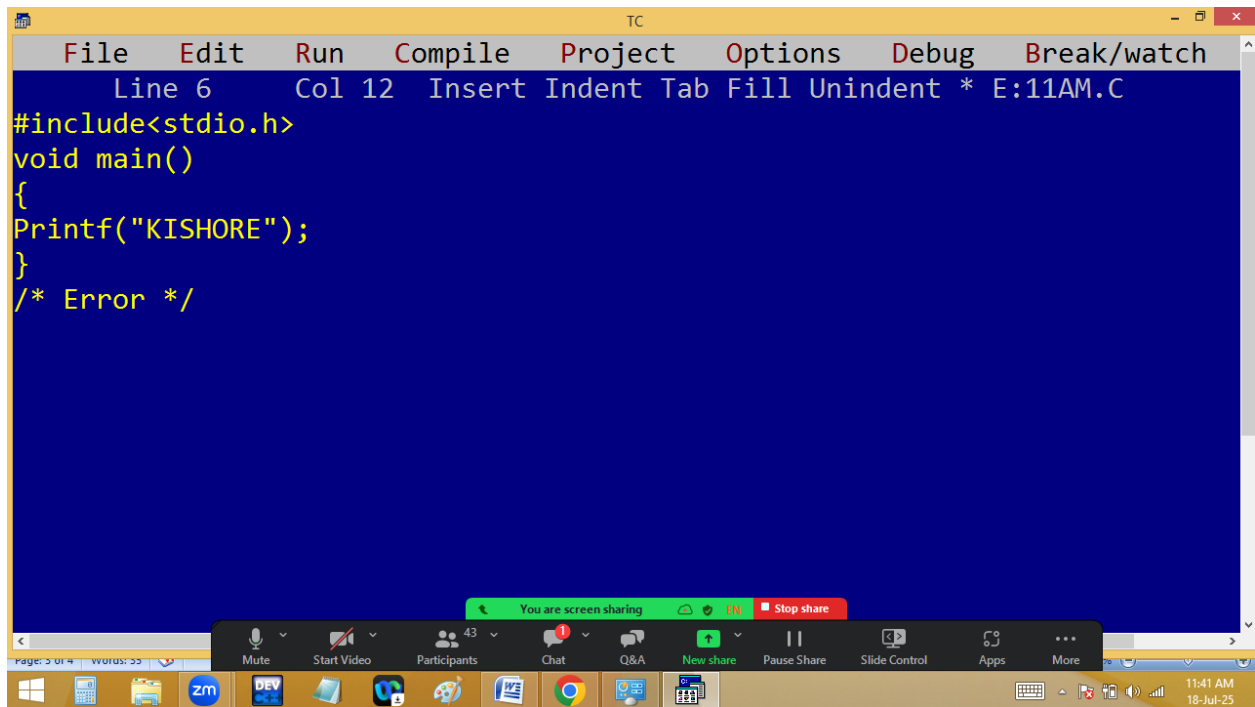
```
File Edit Run Compile Project Options Debug Break/watch
Line 4 Col 7 Insert Indent Tab Fill Unindent * E:11AM.C
#include<stdio.h>
void main()
{
printf("KISHORE");
}
```

Compiling

Main file: 11AM.C
Compiling: EDITOR → 11AM.C

	Total	File
Lines compiled:	218	218
Warnings:	0	0
Errors:	0	0

You are screen sharing



```
File Edit Run Compile Project Options Debug Break/watch
Line 6 Col 12 Insert Indent Tab Fill Unindent * E:11AM.C
#include<stdio.h>
void main()
{
Printf("KISHORE");
}
/* Error */
```

3. constants: Fixed values are constant values. Constant value should be provided at the time of declaration only. i.e. further initializations not allowed.

Eg:

Numerical constants:

`const float pi = 3.14;` ← floating constant

`const int rollno = 1234;` ← int constant

character constants:

`const char name[] = "Rahul";` ← String constant

`const char gender = 'M';` ← char constant

The image shows a screenshot of a Turbo C++ (TC) IDE. The top window displays a C program with the following code:

```
File Edit Run Compile Project Options Debug Break/watch
Line 13 Col 8 Insert Indent Tab Fill Unindent * E:11AM.C
#include<stdio.h>
#include<conio.h>
void main()
{
const char name[]="Kishore Naidu";
const char gender ='M';
const int rollno =1;
const float pi = 3.14;
clrscr();
printf("Name=%s\n",name);
printf("Gender=%c\n",gender);
printf("Rollno = %d\n",rollno);
printf("pi = %f",pi);
getch();
}
```

Below the code editor, there is a status bar with a green "You are screen sharing" message and a red "Stop share" button. A toolbar with icons for Mute, Start Video, Participants (42), Chat, Q&A, New share, Pause Share, Slide Control, Apps, and More is also visible.

The bottom window shows the output of the program:

```
Name=Kishore Naidu
Gender=M
Rollno = 1
pi = 3.140000
```

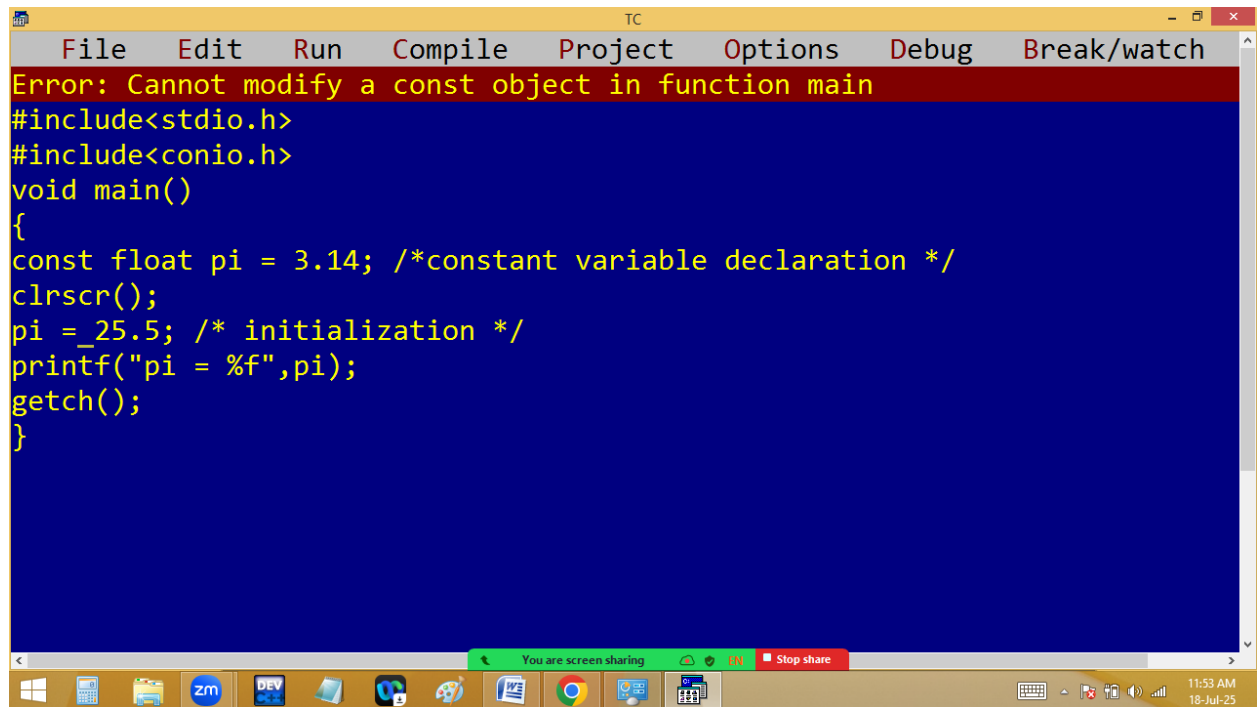
The bottom status bar shows the time as 12:26 PM on 18-Jul-25.

The image shows a screenshot of a Turbo C++ (TC) IDE window. The top menu bar includes File, Edit, Run, Compile, Project, Options, Debug, and Break/watch. Below the menu bar, the status bar shows 'Line 7 Col 10 Insert Indent Tab Fill Unindent * E:11AM.C'. The main editing area has a blue background and contains the following C code:

```
#include<stdio.h>
#include<conio.h>
void main()
{
float pi = 3.14; /* variable declaration */
clrscr();
pi = 25.5; /* initialization */
printf("pi = %f",pi);
getch();
}
```

Below the code editor, there is a green status bar that says 'You are screen sharing' and a red 'Stop share' button. Below that is a toolbar with icons for Mute, Start Video, Participants (42), Chat, Q&A, New share, Pause Share, Slide Control, Apps, and More. The Windows taskbar is visible at the bottom, showing icons for Windows, File Explorer, Zoom, DEV C++, and other applications. The system clock shows 11:49 AM on 18-Jul-25.

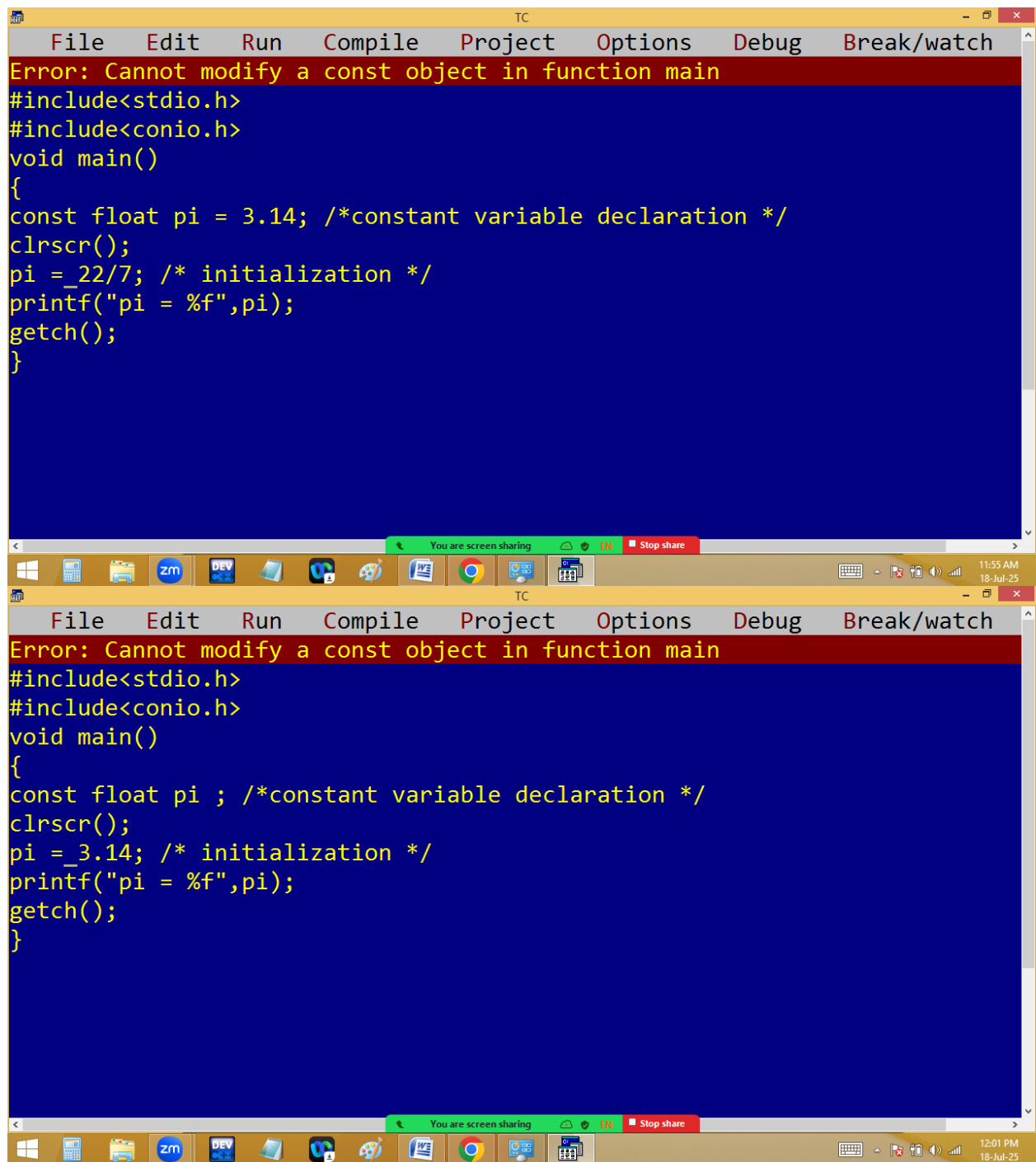
Below the TC window, there is another window showing the output of the program. The output is 'pi = 25.500000_'. The status bar of this window also shows 'You are screen sharing' and a 'Stop share' button. The Windows taskbar is visible at the bottom of this window as well, showing the same system clock and taskbar icons.



The image shows a screenshot of a Turbo C++ (TC) IDE window. The title bar reads "TC". The menu bar includes "File", "Edit", "Run", "Compile", "Project", "Options", "Debug", and "Break/watch". A red error message banner at the top states: "Error: Cannot modify a const object in function main". The main editing area has a dark blue background with yellow text showing the following C code:

```
#include<stdio.h>
#include<conio.h>
void main()
{
const float pi = 3.14; /*constant variable declaration */
clrscr();
pi =_25.5; /* initialization */
printf("pi = %f",pi);
getch();
}
```

At the bottom of the window, there is a Windows taskbar. A green notification bar above the taskbar says "You are screen sharing" with a "Stop share" button. The taskbar contains icons for Windows, File Explorer, Zoom, DEV C++, and other applications. The system tray on the right shows the time as 11:53 AM and the date as 18-Jul-25.



```
TC
File Edit Run Compile Project Options Debug Break/watch
Error: Cannot modify a const object in function main
#include<stdio.h>
#include<conio.h>
void main()
{
const float pi = 3.14; /*constant variable declaration */
clrscr();
pi = _22/7; /* initialization */
printf("pi = %f",pi);
getch();
}

TC
File Edit Run Compile Project Options Debug Break/watch
Error: Cannot modify a const object in function main
#include<stdio.h>
#include<conio.h>
void main()
{
const float pi ; /*constant variable declaration */
clrscr();
pi = 3.14; /* initialization */
printf("pi = %f",pi);
getch();
}
```

4. DATA TYPES: To store anything in our system, we should have to allocate/reserve the memory [

bytes]. This memory having the following 3 properties, which are controlled by the data types.

1. What type of data we want to store
2. How many number of bytes required
3. The max and min value range

Previous classes videos

Day-1 <https://youtu.be/3rSQMvl6Ovs>

Day-2 <https://youtu.be/AI2W2f78wEc>

Day-3 <https://youtu.be/0bD3hU1wM9I>

Day-4 <https://youtu.be/bi1gAJJ18W8>

Day-5 <https://youtu.be/NZkLZa2w2Dc>

Day-6 <https://youtu.be/1m09CCC1gsc>

Day-7 <https://youtu.be/KNfAXhQde3c>

Day-8 <https://youtu.be/LoqMBO45iaY>

Day-9 <https://youtu.be/VeZTpgANezQ>

Emp int sal = 32000; ← 2 bytes c & c++

4 bytes in java / .net / py

Int sal = 32000.50;

