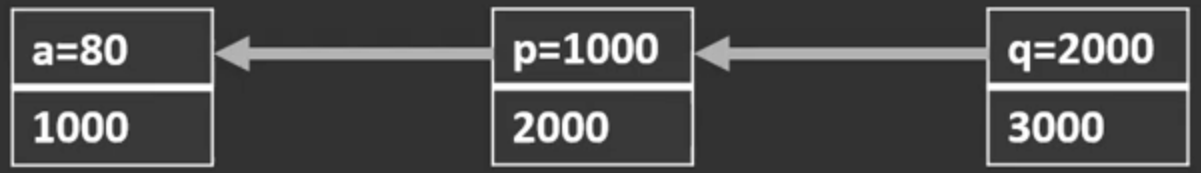
Representation of Double pointer …

1. Int a = 80;
2. Int *p = &a;
3. Int **q = &p;



**q explanation:

- *q will give the value at location 2000, which is 1000.
- **q will give the value at location 1000, which is 80

Hey, a is a variable stored at 1000 location, p is a pointer which contains the address of a variable and q is a double pointer which contains the address of p pointer.

Value of **q = 80
Value of *p = 80
Value of a = 80
Value of p = 1000
Value of q = 3000
Value of &a = 1000

Example ...

```c
// C program to demonstrate pointer to pointer
int main()
{
    int var = 789;

    // pointer for var
    int *ptr2;

    // double pointer for ptr2
    int **ptr1;

    // storing address of var in ptr2
    ptr2 = &var;

    // Storing address of ptr2 in ptr1
    ptr1 = &ptr2;

    // Displaying value of var using
    // both single and double pointers
    printf("Value of var = %d\n", var );
    printf("Value of var using single pointer = %d\n", *ptr2 );
    printf("Value of var using double pointer = %d\n", **ptr1);

  return 0;
}
```

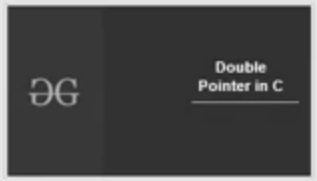
Var=789	Ptr2 = 1000	Ptr1=2000
1000	2000	3000

Output:

Var = 789

*ptr2 = 789

**ptr1 = 789



Example ...

```c
// C program to demonstrate pointer to pointer
int main()
{
    int var = 789;

    // pointer for var
    int *ptr2;

    // double pointer for ptr2
    int **ptr1;

    // storing address of var in ptr2
    ptr2 = &var;

    // Storing address of ptr2 in ptr1
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    // both single and double pointers
    printf("Value of var = %d\n", var );
    printf("Value of var using single pointer = %d\n", *ptr2 );
    printf("Value of var using double pointer = %d\n", **ptr1);

  return 0;
}
```

Var=789	Ptr2 = 1000	Ptr1=2000
1000	2000	3000

Output:

Var = 789
*ptr2 = 789
**ptr1 = 789

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1

2

3

4

Example ...

```
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    int *ptr2;

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    int **ptr1;

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    ptr2 = &var;

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    // both single and double pointers
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    printf("Value of var using double pointer = %d\n", **ptr1);

  return 0;
}
```

Var=789	Ptr2 = 1000	Ptr1=2000
1000	2000	3000

Output:

Var = 789
*ptr2 = 789
**ptr1 = 789

Click to add notes

Slide 3 of 4 | Notes | 76%

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basic.cpp | basic1.cpp | basic2.cpp | basic3.cpp

```
// C program to demonstrate pointer to pointer
#include <stdio.h>
int main()
{
    int var = 789;

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    int **ptr1;

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    printf("Value of var using single pointer = %d\n", *ptr2 );
    printf("Value of var using double pointer = %d\n", **ptr1);

return 0;
}
```

Var=789	Ptr2 = 1000	Ptr1=2000
1000	2000	3000

Output:

Var = 789
*ptr2 = 789
**ptr1 = 789

C++ source file | length : 565 lines : 27 | Ln : 18 Col : 5 Sel : 0 | 0 | Windows (CR LF) UTF-8 | INS

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basic.cpp basic1.cpp basic2.cpp basic3.cpp

```
// C program to demonstrate pointer to pointer
#include <stdio.h>
int main()
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    int **ptr1;

    // storing address of var in ptr2
    ptr2 = &var;

    // Storing address of ptr2 in ptr1
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    // Displaying value of var using
    // both single and double pointers
    printf("Value of var = %d\n", var );
    printf("Value of var using single pointer = %d\n", *ptr2 );
    printf("Value of var using double pointer = %d\n", **ptr1);

return 0;
}
```

C++ source file length : 565 lines : 27 Ln : 18 Col : 5 Sel : 0 | 0 Windows (CR LF) UTF-8 INS

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*C:\Users\vgulia\Documents\personal_documents\C_Pointers\basic.cpp - Notepad++

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    int *ptr2;

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    printf("Value of var using double pointer = %d\n", **ptr1);

return 0;
}
```

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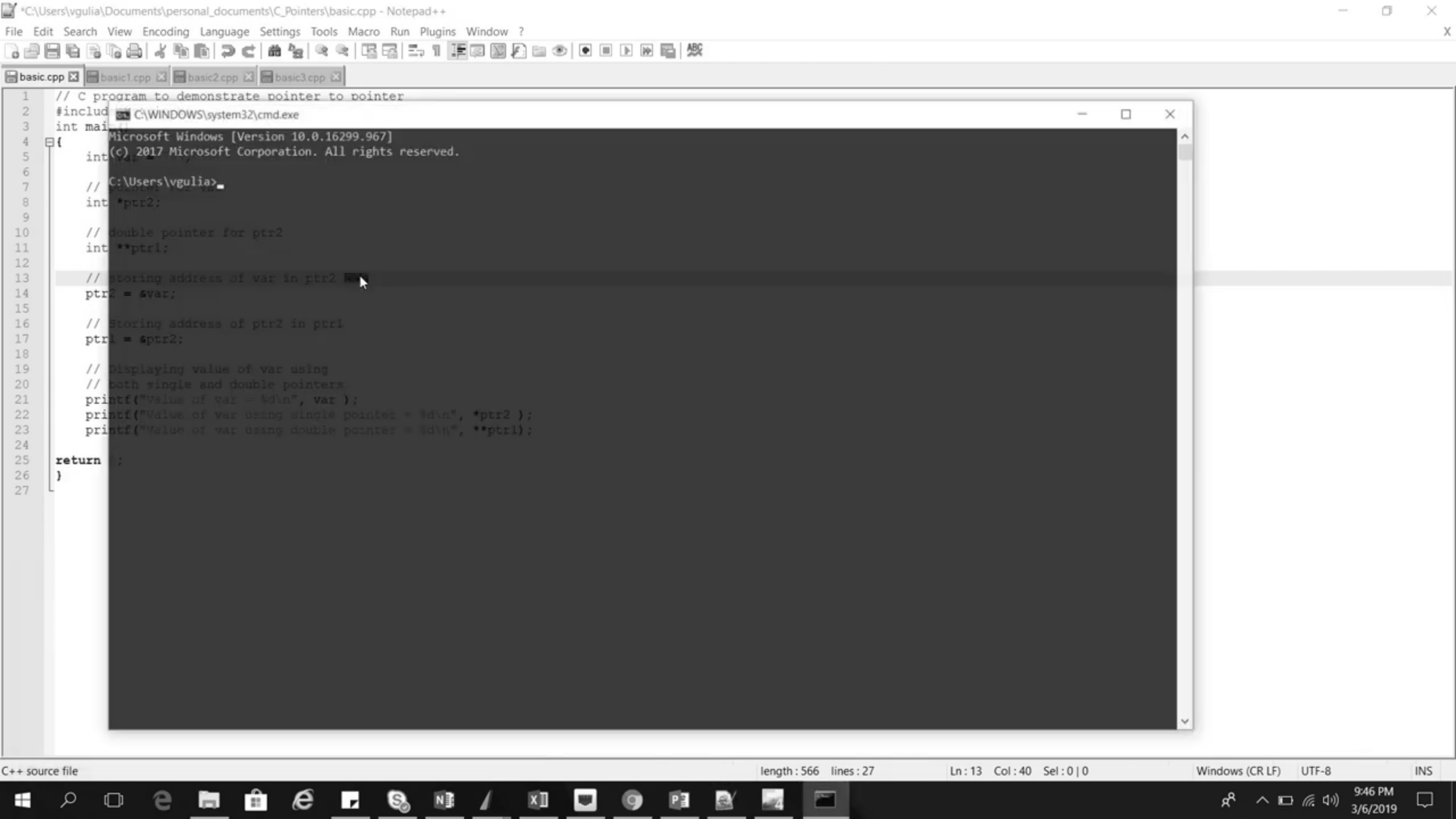
*C:\Users\vgulia\Documents\personal_documents\C_Pointers\basic.cpp - Notepad++
File Edit Search View Encoding Language Settings Tools Macro Run Plugins Window ?
basic.cpp
basic1.cpp
basic2.cpp
basic3.cpp
// C program to demonstrate pointer to pointer
#includ
int mai
{
int var
// pointer for var
int *ptr2;
// double pointer for ptr2
int **ptr1;
// storing address of var in ptr2
ptr2 = &var;
// Storing address of ptr2 in ptr1
ptr1 = &ptr2;
// Displaying value of var using
// both single and double pointers
printf("Value of var = %d\n", var);
printf("Value of var using single pointer = %d\n", *ptr2);
printf("Value of var using double pointer = %d\n", **ptr1);
return 0;
}
C:\WINDOWS\system32\cmd.exe
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basic.cpp basic1.cpp basic2.cpp basic3.cpp

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    int **ptr1;

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```

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```
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```

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```

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```

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basic.cpp | basic1.cpp | basic2.cpp | basic3.cpp

```
// C program to demonstrate pointer to pointer
#include <stdio.h>
int main()
{
    int var = 78

    // pointer f r var
    int *ptr2;

    // double po nter for ptr2
    int **ptr1;

    // storing a dress of var in ptr2
    ptr2 = &var;

    // Storing a dress of ptr2 in ptr1
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```

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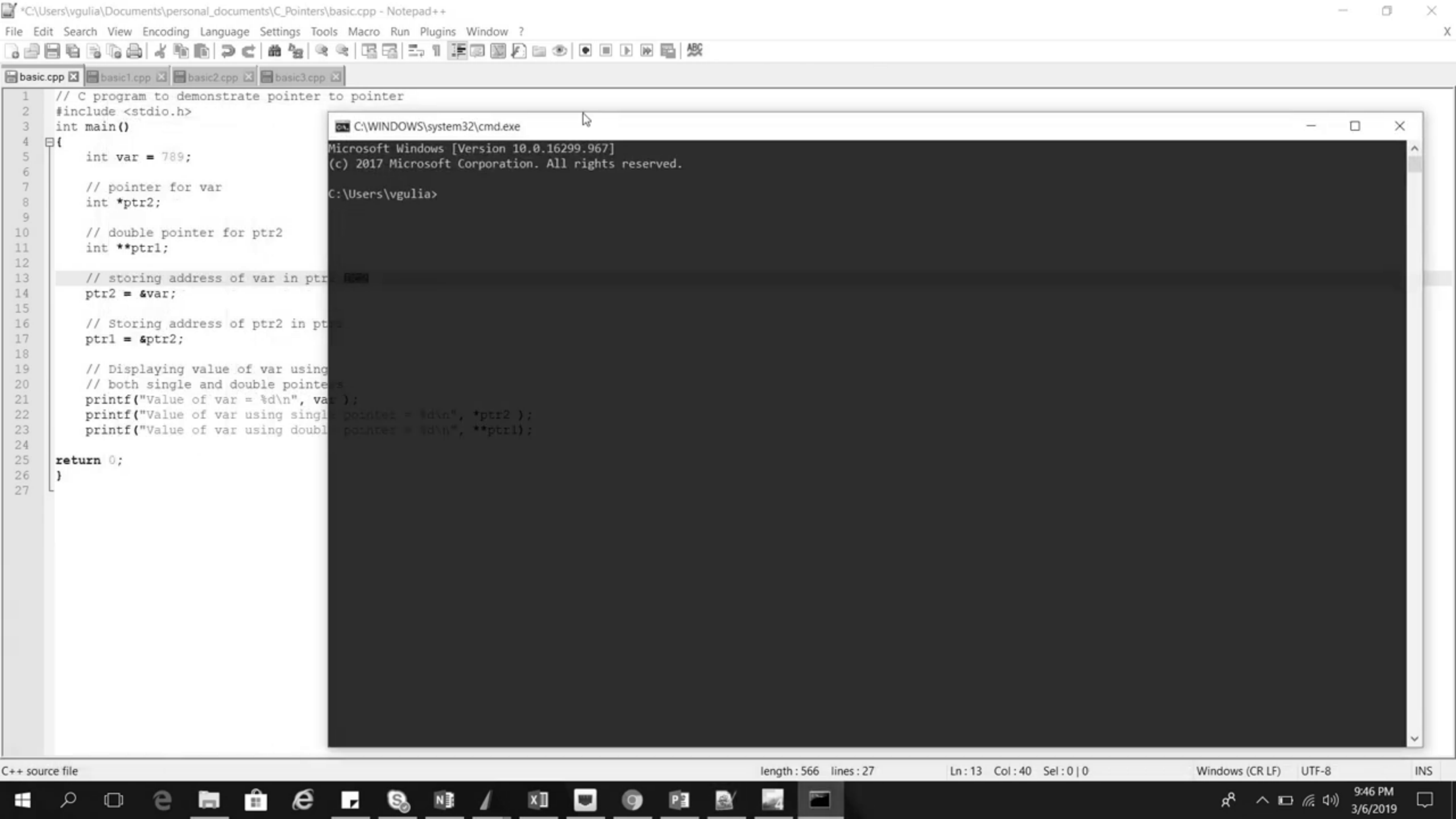
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File Edit Search View Encoding Language Settings Tools Macro Run Plugins Window ?
basic.cpp basic1.cpp basic2.cpp basic3.cpp
// C program to demonstrate pointer to pointer
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int **ptr1;
// storing address of var in ptr
ptr2 = &var;
// Storing address of ptr2 in ptr1
ptr1 = &ptr2;
// Displaying value of var using
// both single and double pointers
printf("Value of var = %d\n", var);
printf("Value of var using single pointer = %d\n", *ptr2);
printf("Value of var using double pointer = %d\n", **ptr1);
return 0;
}
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C++ source file
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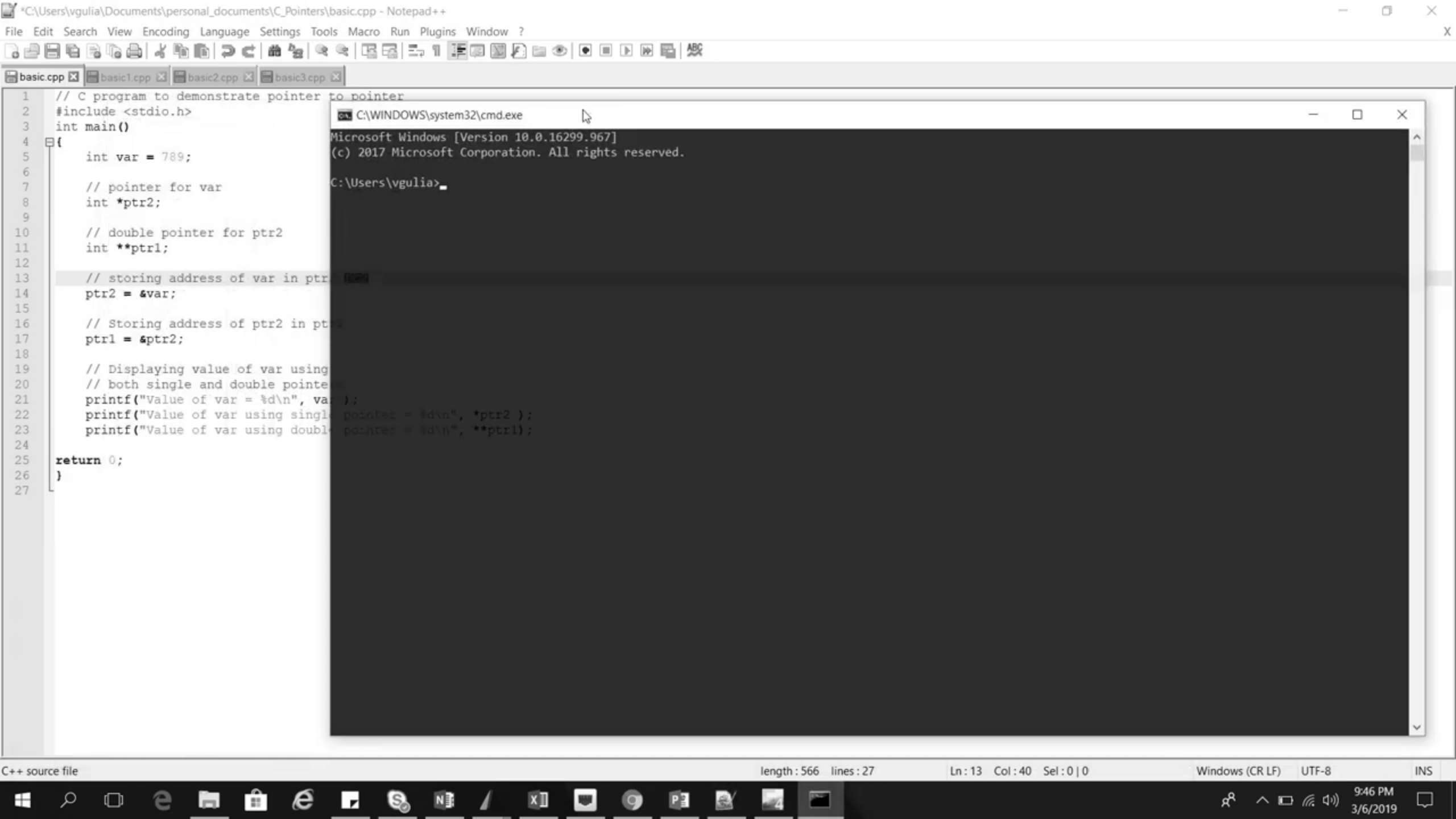
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ptr2 = &var;
// Storing address of ptr2 in pt
ptr1 = &ptr2;
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// both single and double pointe
printf("Value of var = %d\n", va);
printf("Value of var using singl pointer = %d\n", *ptr2);
printf("Value of var using doubl pointer = %d\n", **ptr1);
return 0;
}
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basic.cpp | basic1.cpp | basic2.cpp | basic3.cpp

```
1  // C program to demonstrate pointer to pointer
2  #include <stdio.h>
3  int main()
4  {
5      int var = 789;
6
7      // pointer for var
8      int *ptr2;
9
10     // double pointer for ptr2
11     int **ptr1;
12
13     // storing address of var in ptr2
14     ptr2 = &var;
15
16     // Storing address of ptr2 in ptr
17     ptr1 = &ptr2;
18
19     // Displaying value of var using
20     // both single and double pointer
21     printf("Value of var = %d\n", var );
22     printf("Value of var using single pointer = %d\n", *ptr2 );
23     printf("Value of var using double pointer = %d\n", **ptr1);
24
25 return 0;
26 }
27
```

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```
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C:\Users\vgulia>cd Documents\personal_documents\C_Pointers

C:\Users\vgulia\Documents\personal_documents\C_Pointers>g++ basic.cpp -o basic

C:\Users\vgulia\Documents\personal_documents\C_Pointers>basic.exe
Value of var = 789
Value of var using single pointer = 789
Value of var using double pointer = 789

C:\Users\vgulia\Documents\personal_documents\C_Pointers>
```

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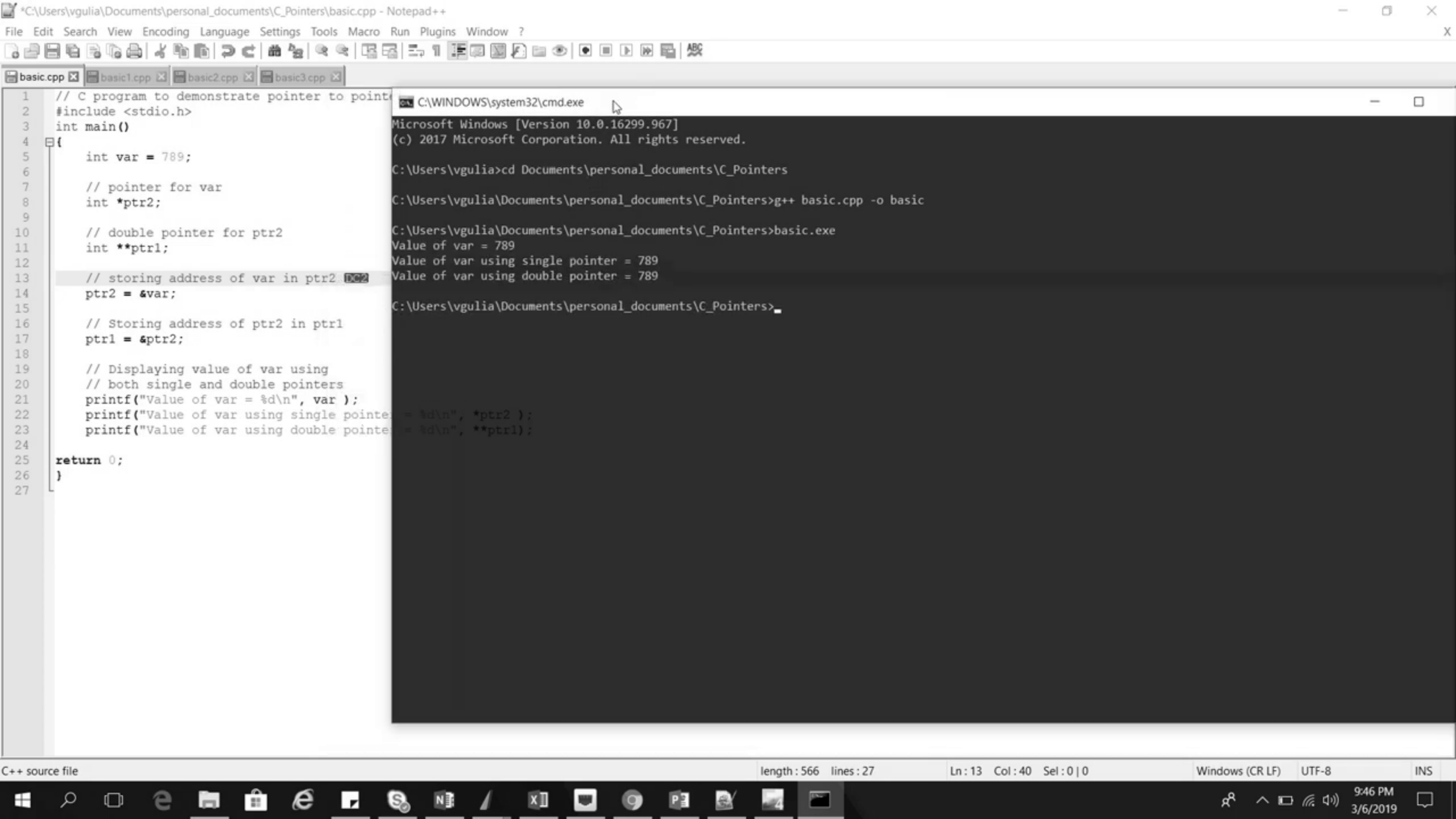
*C:\Users\vgulia\Documents\personal_documents\C_Pointers\basic.cpp - Notepad++
File Edit Search View Encoding Language Settings Tools Macro Run Plugins Window ?
basic.cpp
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int **ptr1;
// storing address of var in ptr2
ptr2 = &var;
// Storing address of ptr2 in ptr1
ptr1 = &ptr2;
// Displaying value of var using
// both single and double pointers
printf("Value of var = %d\n", var);
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return 0;
}
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C++ source file
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Ln : 13 Col : 40 Sel : 0 | 0
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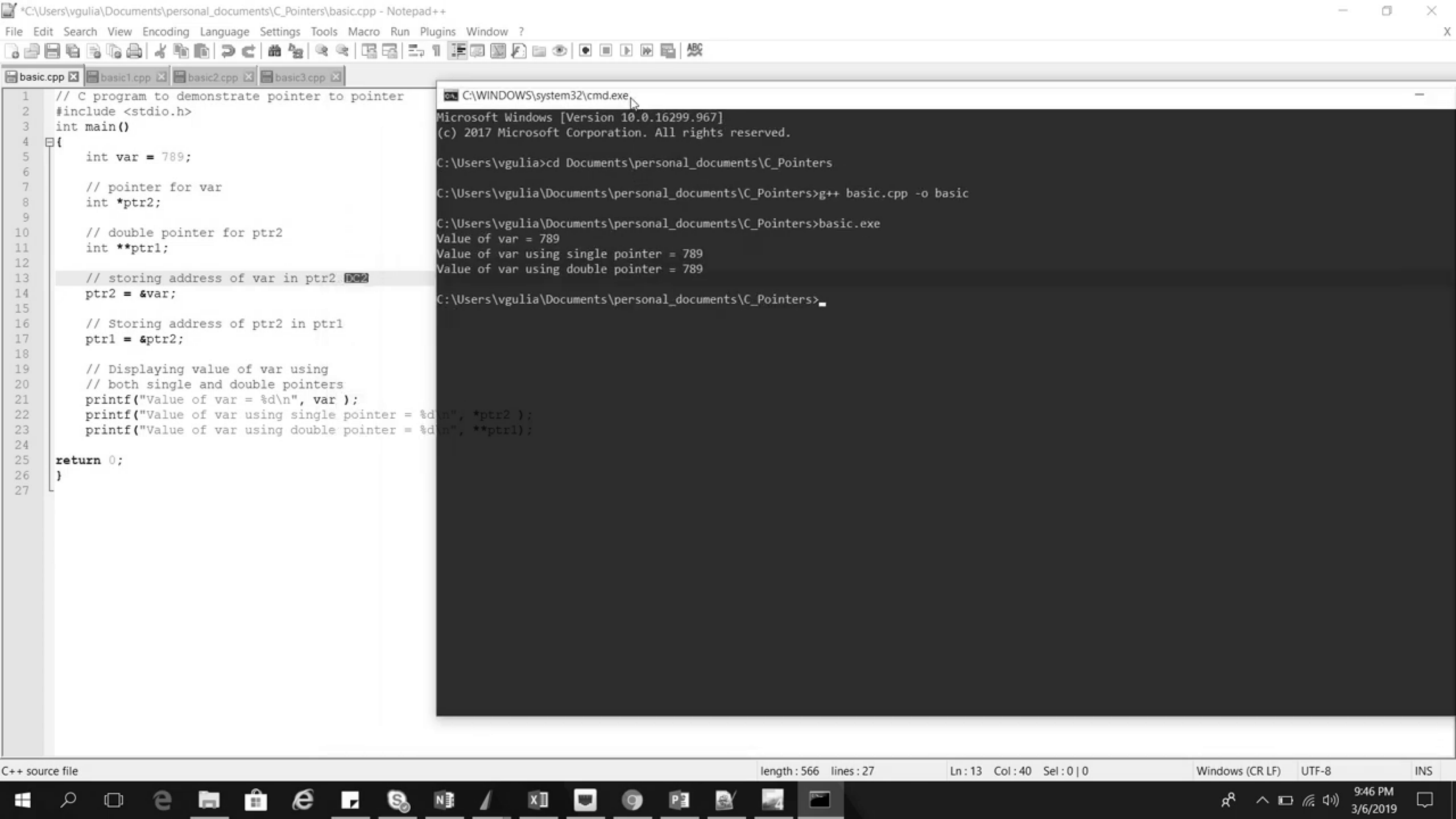
*C:\Users\vgulia\Documents\personal_documents\C_Pointers\basic.cpp - Notepad++
File Edit Search View Encoding Language Settings Tools Macro Run Plugins Window ?
basic.cpp
basic1.cpp
basic2.cpp
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int main()
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// double pointer for ptr2
int **ptr1;
// storing address of var in ptr2
ptr2 = &var;
// Storing address of ptr2 in ptr1
ptr1 = &ptr2;
// Displaying value of var using
// both single and double pointers
printf("Value of var = %d\n", var);
printf("Value of var using single pointer = %d\n", *ptr2);
printf("Value of var using double pointer = %d\n", **ptr1);
return 0;
}
C:\WINDOWS\system32\cmd.exe
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C:\Users\vgulia>cd Documents\personal_documents\C_Pointers
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Value of var = 789
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C:\Users\vgulia\Documents\personal_documents\C_Pointers>
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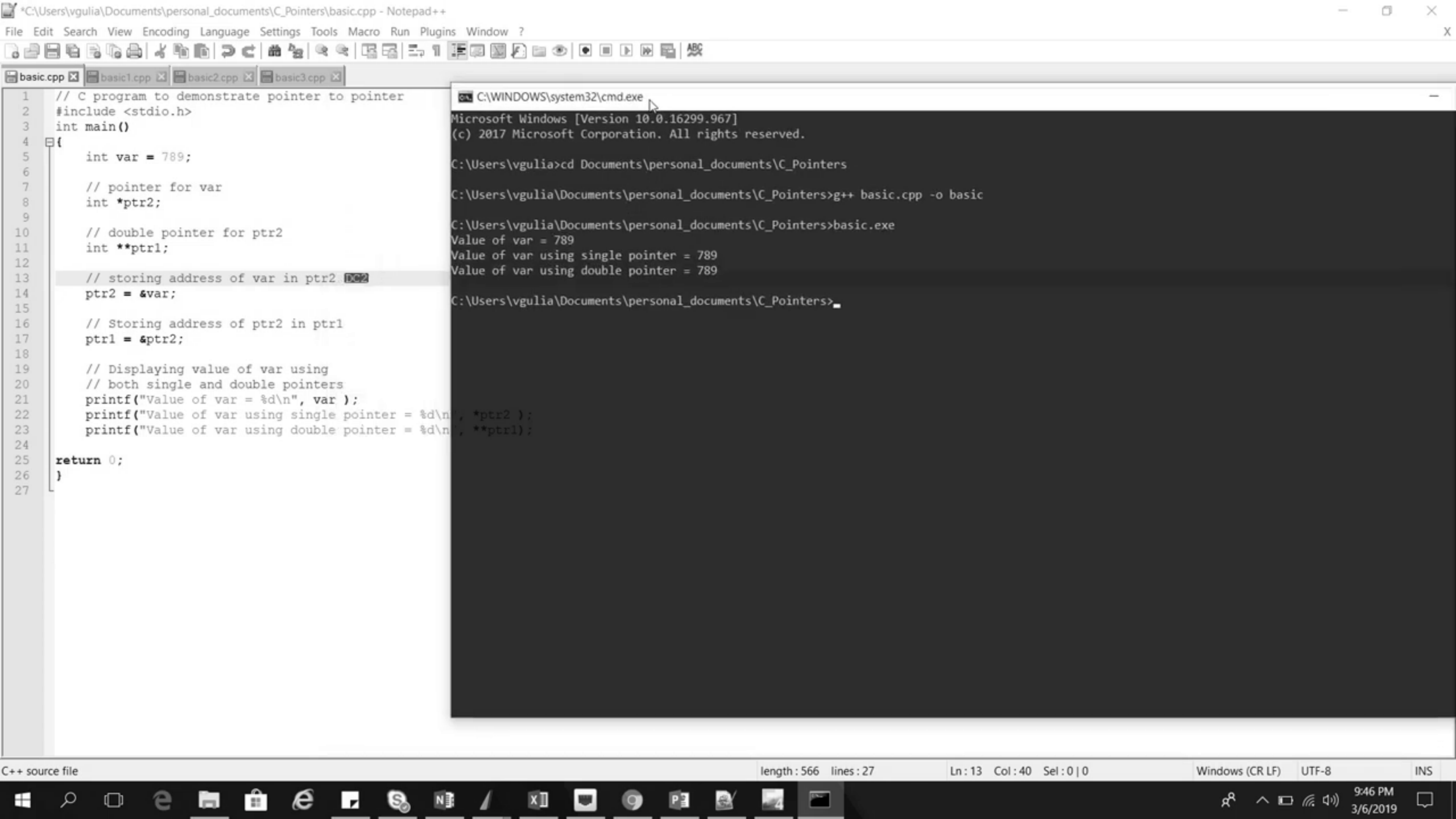
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int **ptr1;
// storing address of var in ptr2
ptr2 = &var;
// Storing address of ptr2 in ptr1
ptr1 = &ptr2;
// Displaying value of var using
// both single and double pointers
printf("Value of var = %d\n", var);
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C:\Users\vgulia\Documents\personal_documents\C_Pointers>
C++ source file
length : 566 lines : 27
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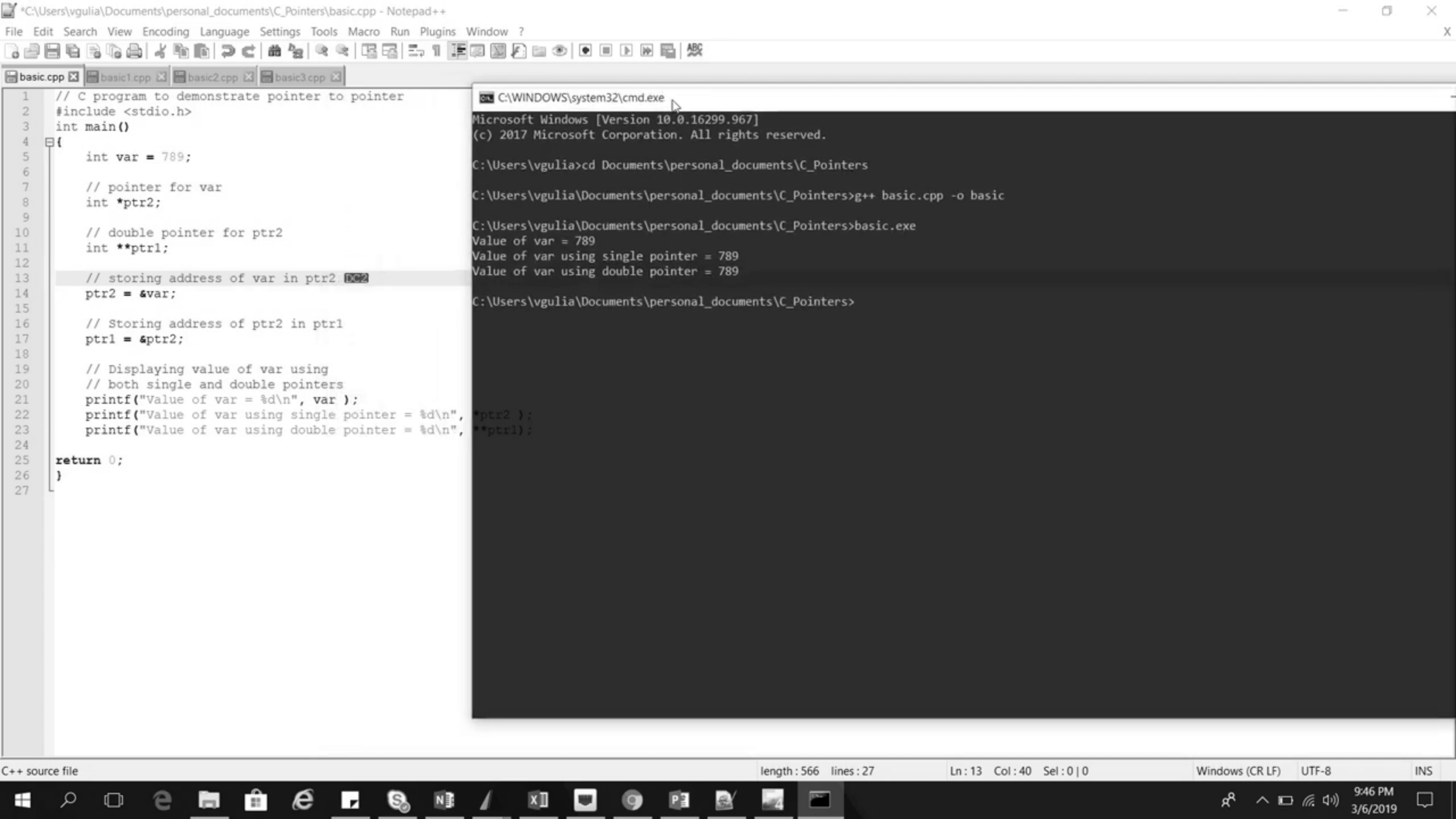
*C:\Users\vgulia\Documents\personal_documents\C_Pointers\basic.cpp - Notepad++
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basic.cpp basic1.cpp basic2.cpp basic3.cpp
// C program to demonstrate pointer to pointer
#include <stdio.h>
int main()
{
int var = 789;
// pointer for var
int *ptr2;
// double pointer for ptr2
int **ptr1;
// storing address of var in ptr2
ptr2 = &var;
// Storing address of ptr2 in ptr1
ptr1 = &ptr2;
// Displaying value of var using
// both single and double pointers
printf("Value of var = %d\n", var);
printf("Value of var using single pointer = %d\n", *ptr2);
printf("Value of var using double pointer = %d\n", **ptr1);
return 0;
}
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C:\Users\vgulia\Documents\personal_documents\C_Pointers>g++ basic.cpp -o basic
C:\Users\vgulia\Documents\personal_documents\C_Pointers>basic.exe
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Value of var using single pointer = 789
Value of var using double pointer = 789
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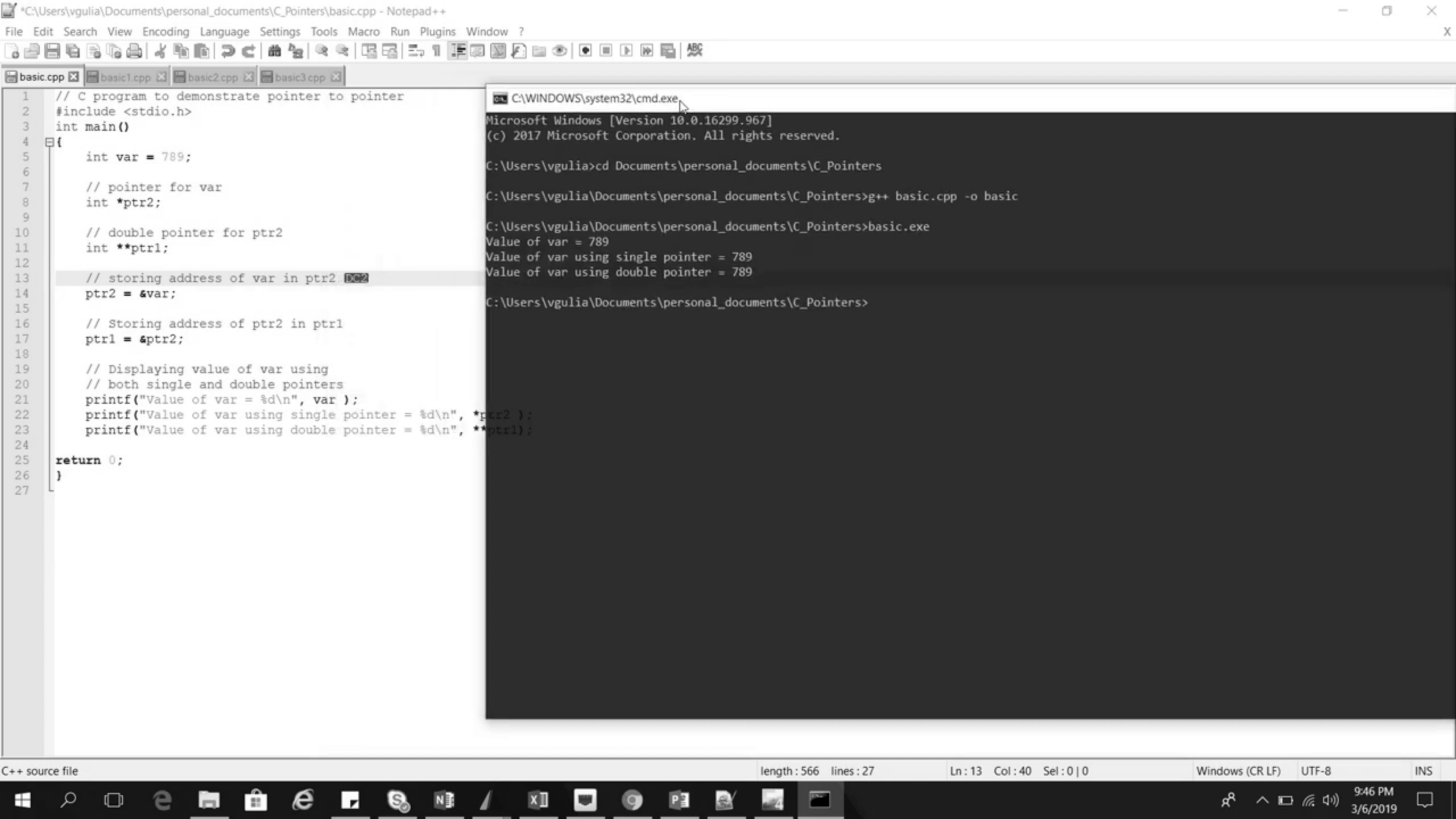
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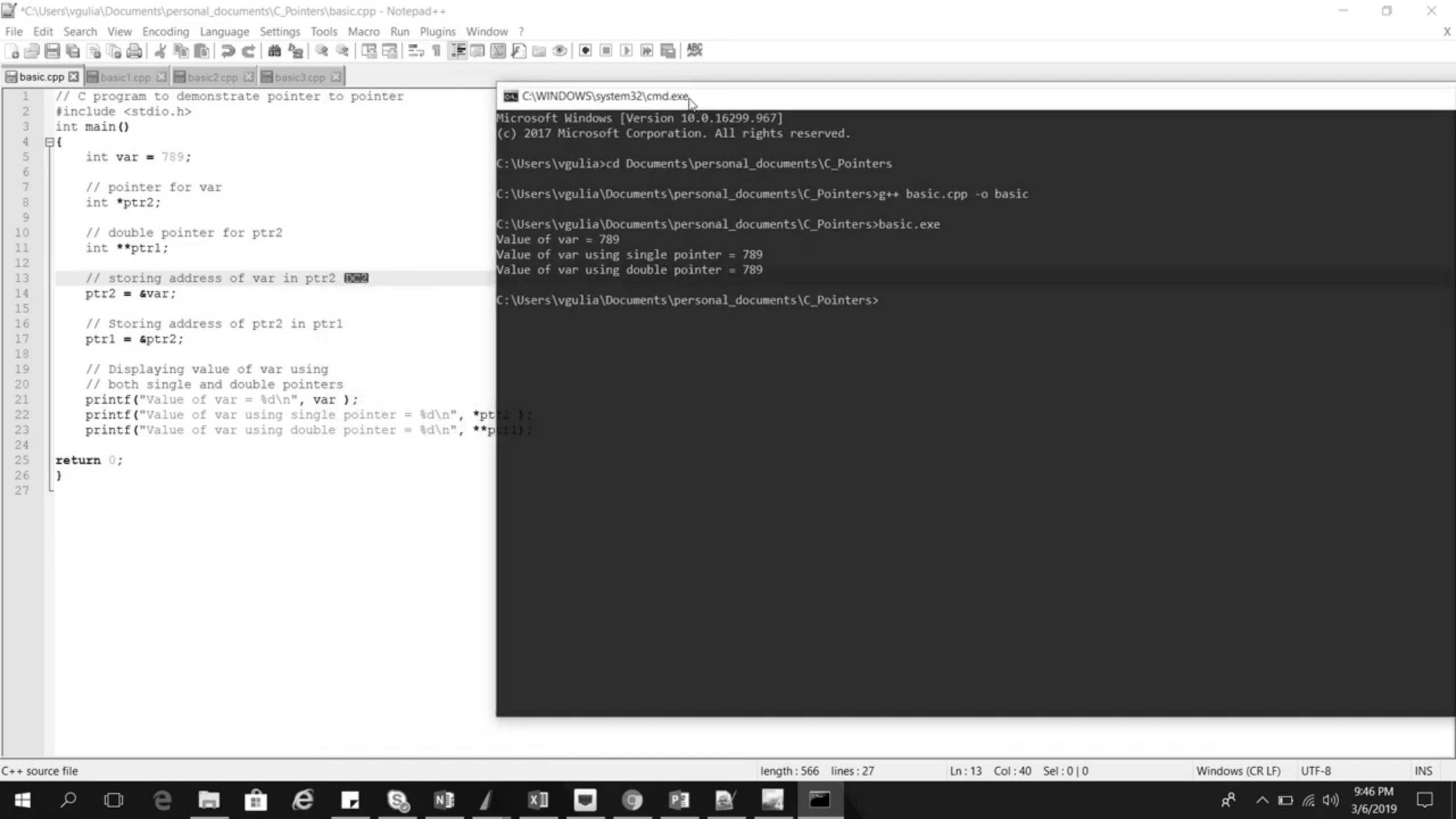
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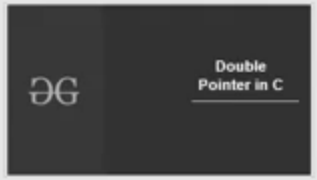

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Example ...

```c
// C program to demonstrate pointer to pointer
int main()
{
    int var = 789;

    // pointer for var
    int *ptr2;

    // double pointer for ptr2
    int **ptr1;

    // storing address of var in ptr2
    ptr2 = &var;

    // Storing address of ptr2 in ptr1
    ptr1 = &ptr2;

    // Displaying value of var using
    // both single and double pointers
    printf("Value of var = %d\n", var );
    printf("Value of var using single pointer = %d\n", *ptr2 );
    printf("Value of var using double pointer = %d\n", **ptr1);

  return 0;
}
```

Var=789	Ptr2 = 1000	Ptr1=2000
1000	2000	3000

Output:

Var = 789
*ptr2 = 789
**ptr1 = 789

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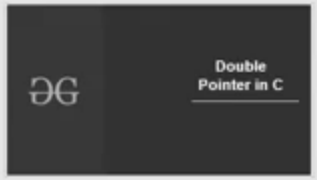

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