

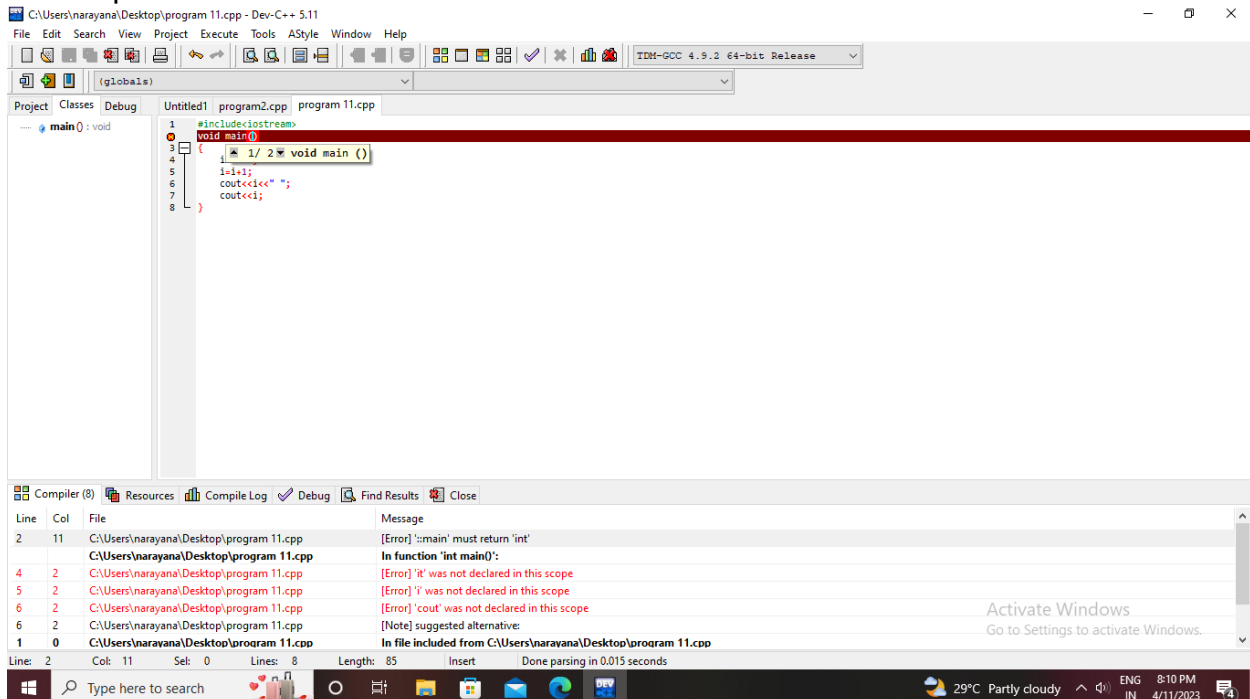
ASSIGNMNT 2

1. Identify the error in program

Program:

```
#include<iostream>
void main()
{
    int i=0;
    i=i+1;
    cout<<i<<" ";
    cout<<i;
}
```

Output:

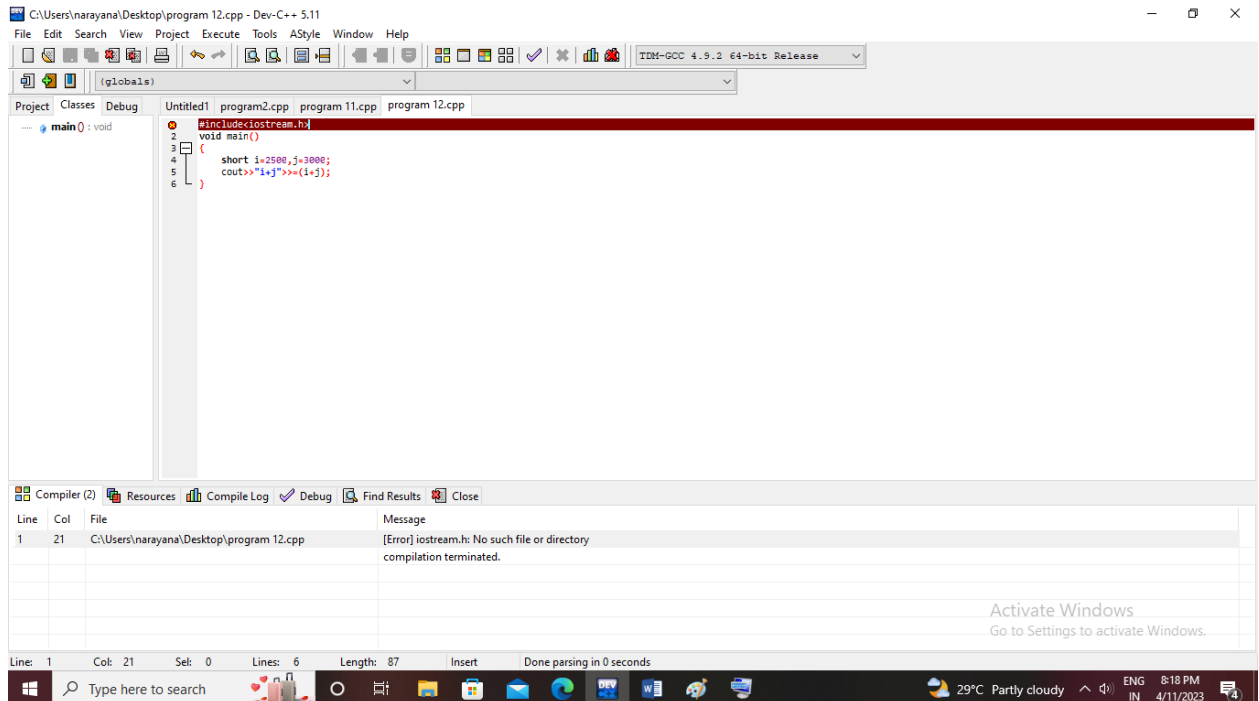


2. Identify the error

Program:

```
#include<iostream.h>
void main()
{
    short i=2500, j=3000;
    cout>>" i+j ">>=(i+j);
}
```

Output:



3. What will happen when you run following program

Program:

```
#include<iostream.h>
void main()
{
    int i=10, j=5;
    int modresult=0;
    int divresult=0;
    modresult=i%j;
    cout<<modresult;
    divresult=i/modresult;
    cout<<divresult;
}
```

```
using namespace std;
#include<iostream>
int main()
{
    int i=10, j=5;
    int modresult=0;
    int divresult=0;
    modresult=i%j;
    cout<<modresult;
    divresult=i/modresult;
    cout<<divresult;
    return 0;
}
```

Output:

The screenshot shows a C++ IDE with the following code in `program 13.cpp`:

```
1 #include<iostream>
2
3 void main()
4 {
5     int modresult=0;
6     int divresult=0;
7     modresult=i%j;
8     cout<<modresult;
9     divresult=i/modresult;
10    cout<<divresult;
11    return 0;
12 }
```

The compiler output window shows the following errors:

- Line 2, Col 11: [Error] 'main' must return 'int'
- Line 4, Col 11: In function 'int main()': [Error] 'j' was not declared in this scope
- Line 8, Col 2: [Error] 'cout' was not declared in this scope
- Line 8, Col 2: [Note] suggested alternative: In file included from C:\Users\narayana\Desktop\program 13.cpp

The status bar at the bottom indicates: Line: 2, Col: 11, Sel: 0, Lines: 12, Length: 185, Insert, Done parsing in 0.047 seconds.

The screenshot shows the execution of `program 1.exe` in a C++ IDE. The output window displays the following message:

```
Process exited after 2.824 seconds with return value 3221225620
Press any key to continue . . .
```

The compilation results window shows the following information:

- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\narayana\Desktop\program1.exe
- Output Size: 1.83190059661865 MiB
- Compilation Time: 1.25s

The status bar at the bottom indicates: Line: 14, Col: 1, Sel: 0, Lines: 14, Length: 208, Insert, Done parsing in 0 seconds.

4. What happens if the following program is executed in C and C++?

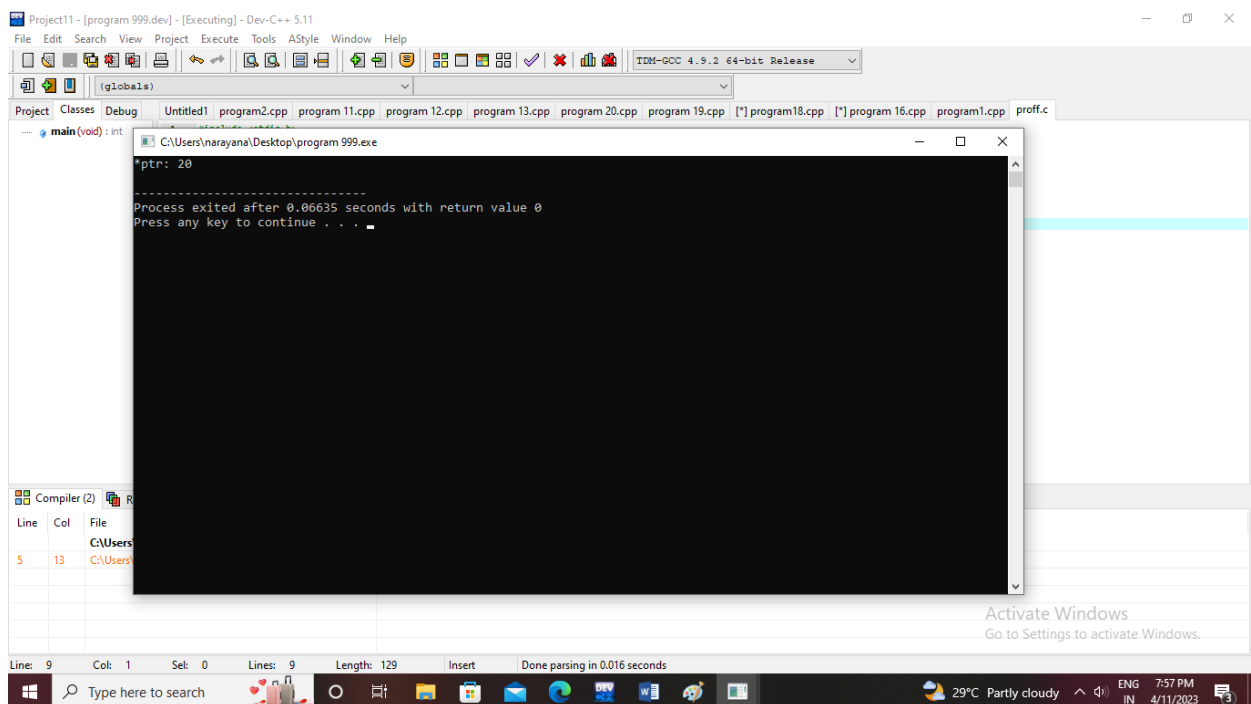
Program:

```
#include <stdio.h>
int main(void)
{
    const int j = 20;
    int *ptr = &j;
    printf("*ptr: %d\n", *ptr);
    return 0;
}
```

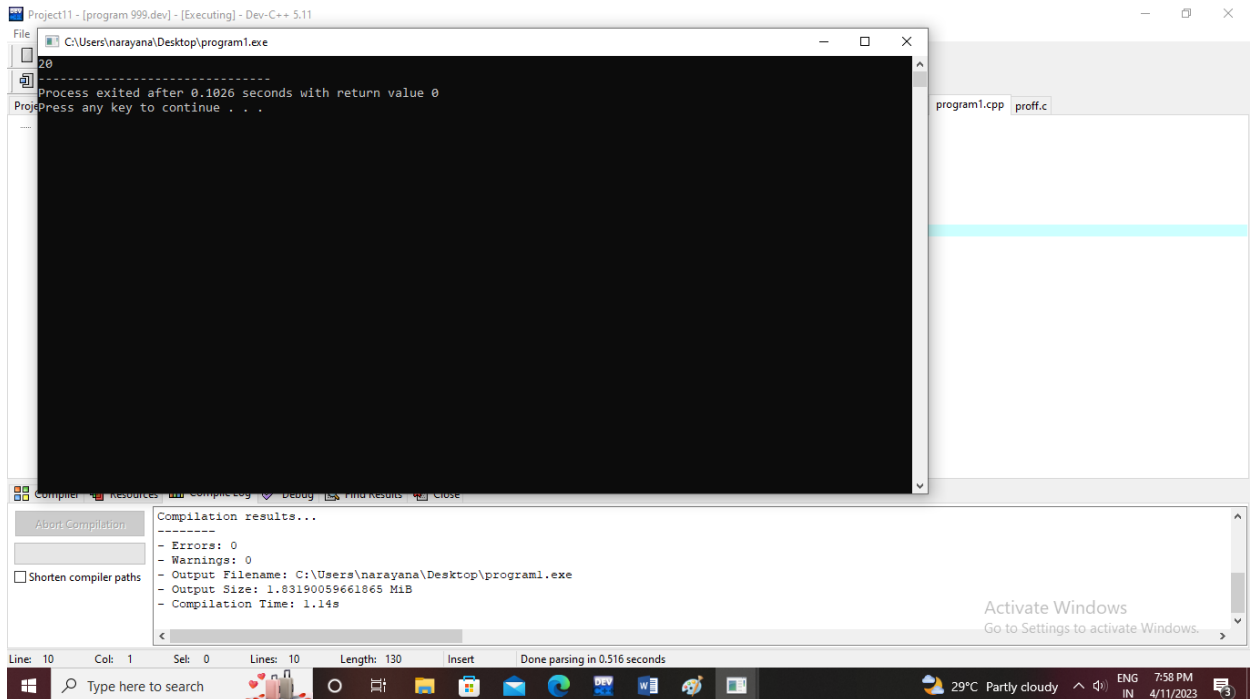
```
using namespace std;
#include<iostream>
int main(void)
{
    int j = 20;
    int *ptr = &j;
    cout<<(*ptr);
    return 0;
}
```

Output:

In c:



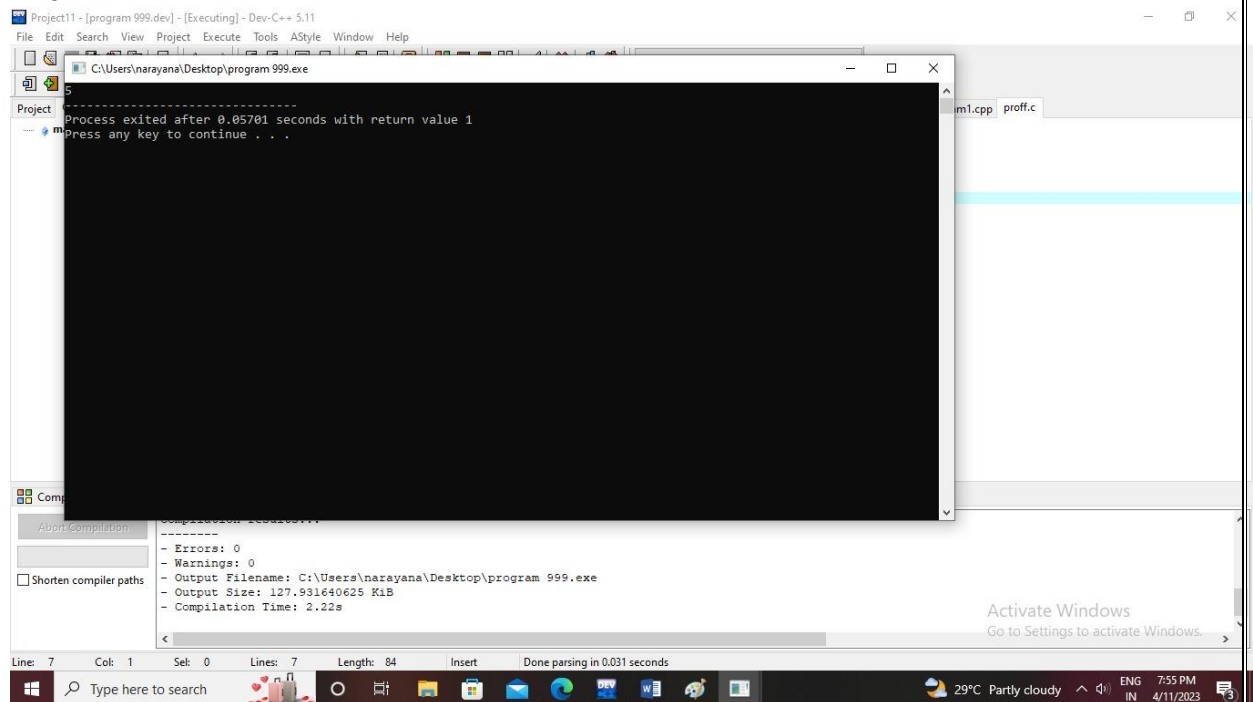
In c++:



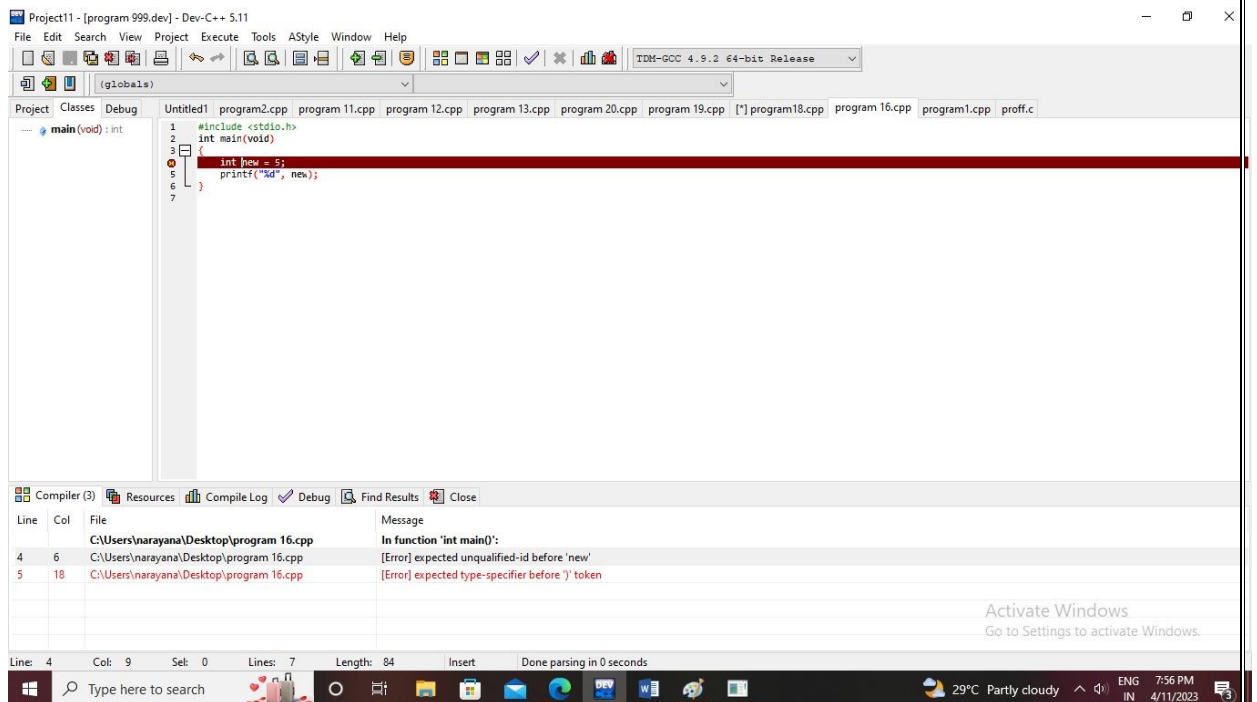
5. What happens if the following program is executed in C and C++?

```
#include <stdio.h>
int main(void)
{
    int new = 5;
    printf("%d", new);
}
```

In c:



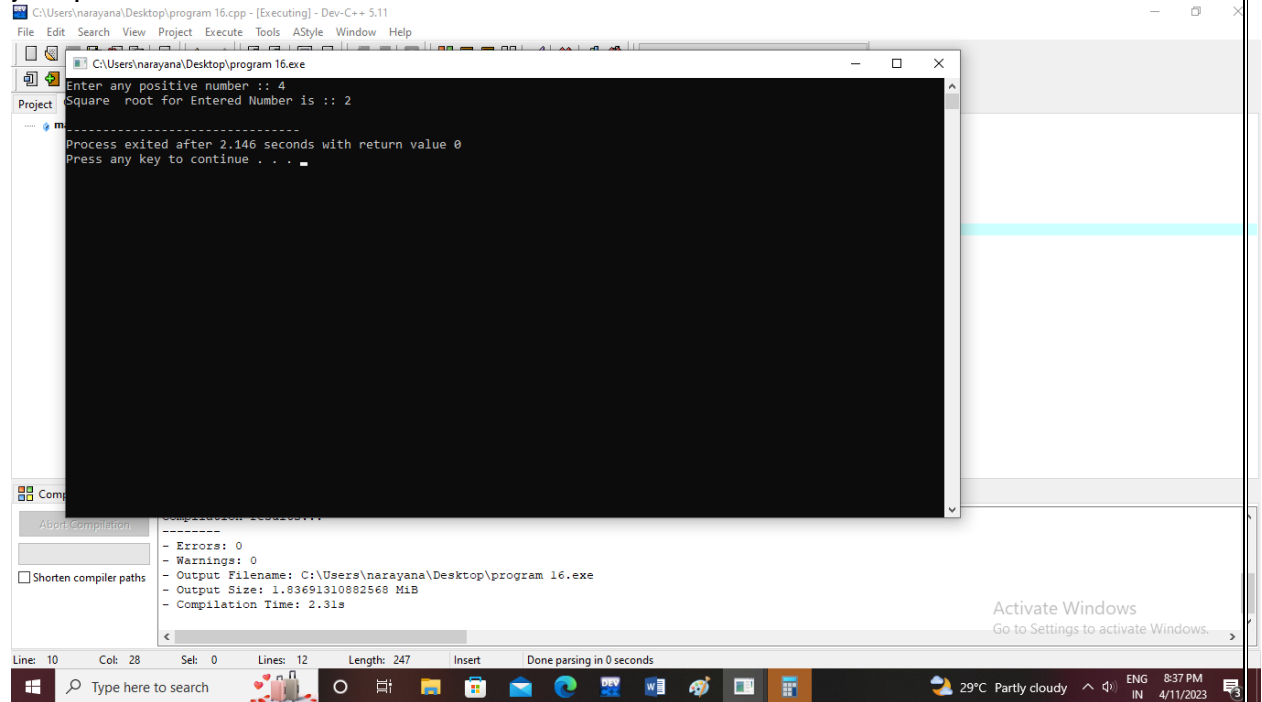
In c++:



6. Write c++ program for finding Square root of number.

```
#include<iostream>
#include<math.h>
using namespace std;
int main()
{
    float sq,n;
    cout<<"Enter any positive number :: ";
    cin>>n;
    sq=sqrt(n);
    cout<<"\nSquare root of Entered Number is :: "<<sq<<endl;
    return 0;
```

}Output:



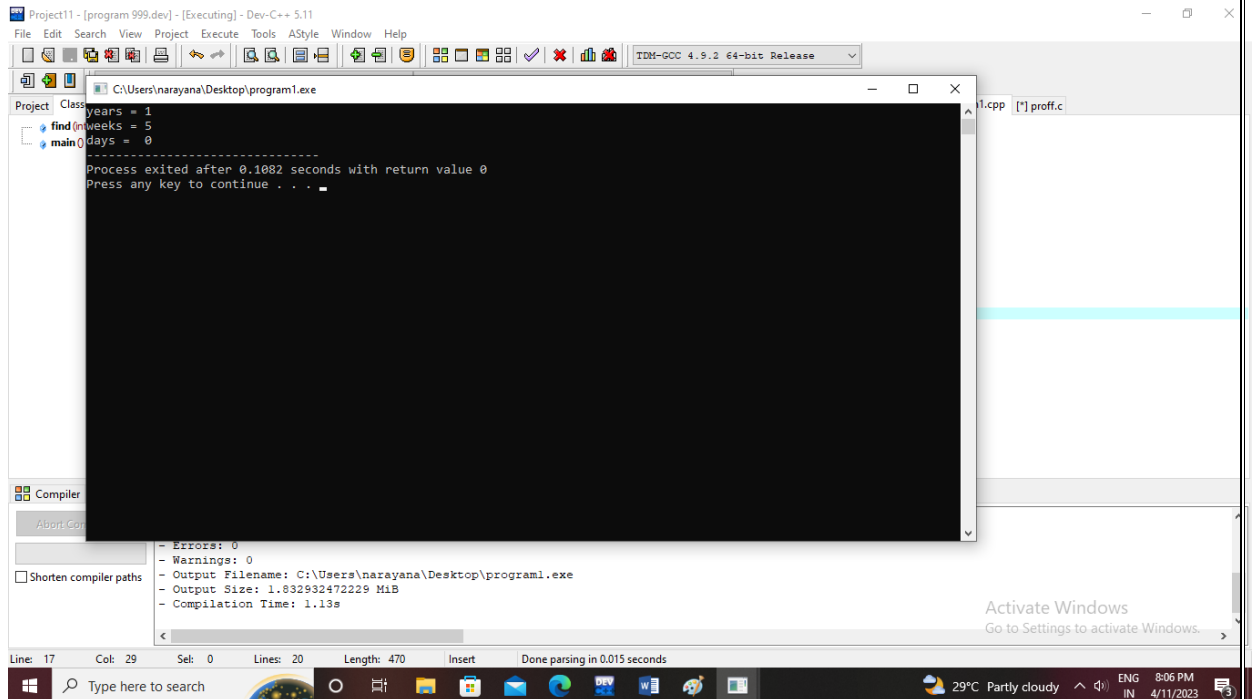
7. A person wants to find his birthday day, but he has known no of days present only.

Find the no of days, no of years and no of weeks present for his birthday.

Input:

```
#include<iostream>
using namespace std;
#define DAYS_IN_WEEK 7
void find(int number_of_days)
{
    int year, week, days;
    year = number_of_days / 365;
    week = (number_of_days % 365) / DAYS_IN_WEEK;
    days = (number_of_days % 365) % DAYS_IN_WEEK;
    cout << "years = " << year;
    cout << "\nweeks = " << week;
    cout << "\ndays = " << days;
}
int main()
{
    int number_of_days = 400;
    find(number_of_days);
    return 0;
}
```

Output:



8. A person wants to invest amount in financial institution and he wants find the compounded interest he will get, if no of year 385000, roi is 13.89 and time period is 4.

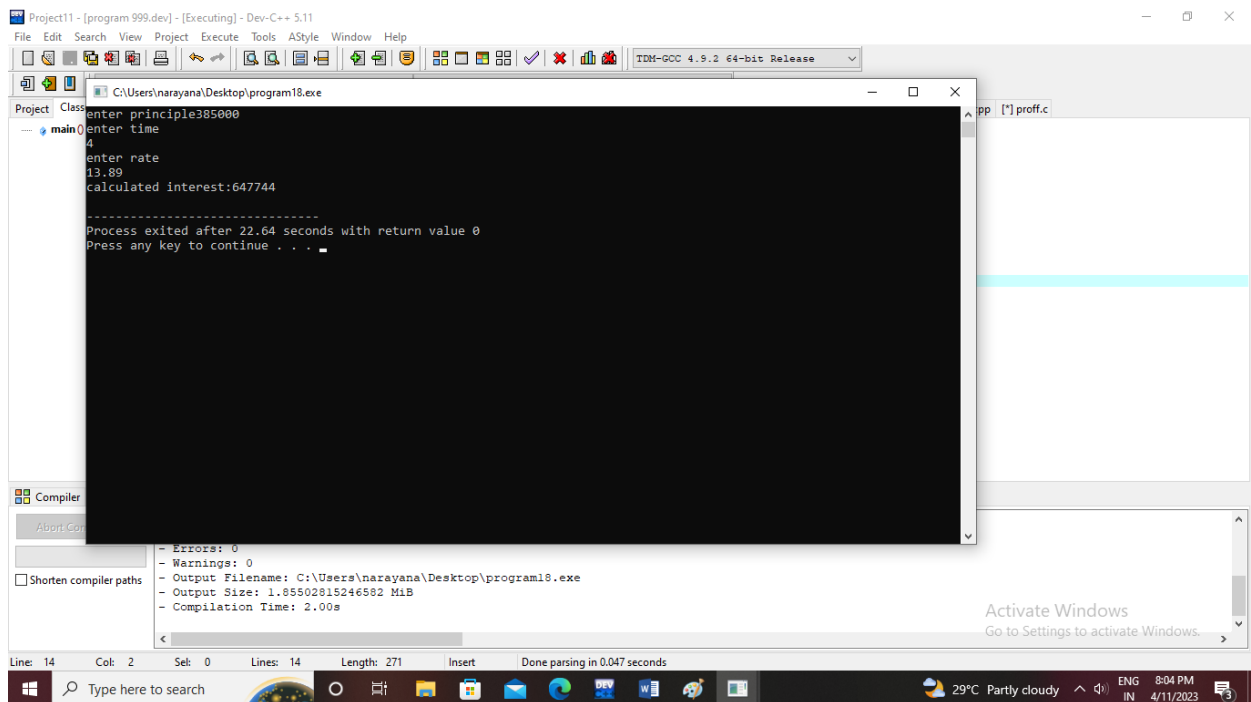
Write the code for above scenario.

```

#include<iostream>
#include<math.h>
using namespace std;
int main(){
    float p,r,h,t;
    cout<<"enter principle";
    cin>>p;
    cout<<"enter time"<<endl;
    cin>>t;
    cout<<"enter rate"<<endl;
    cin>>r;
    h=p*pow((1+r/100),t);
    cout<<"calculated interest:"<<h<<endl;
}

```

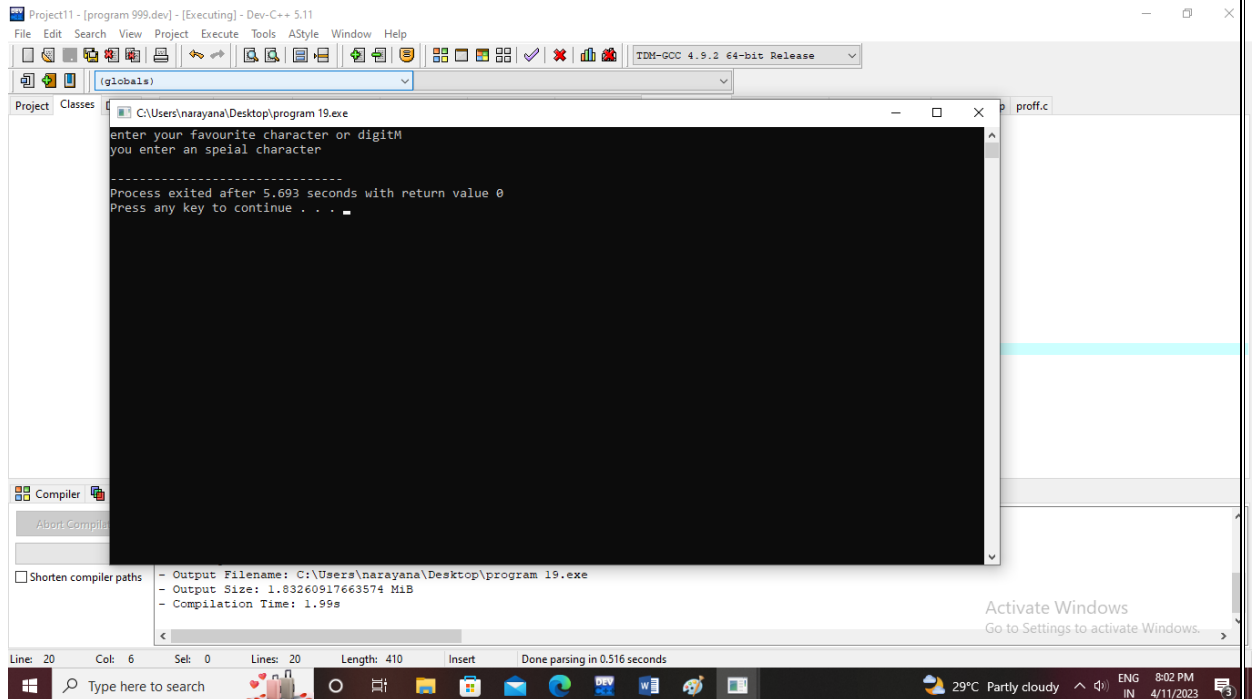
Output:



9. C++ Program to Check Character is Uppercase, Lowercase, Digit or Special

```
#include<iostream>
using namespace std;
int main(){
    int a;
    cout<<"enter your favourite character or digit";
    cin>>a;
    if(a>=65 and a<=90){
        cout<<"you enter the uppercase value"<<endl;
    }
    else if(a>48 and a<=57){
        cout<<"you enter an digit"<<endl;
    }
    else if(a>=97 and a<=122){
        cout<<"you enter an lowercase"<<endl;
    }
    else{
        cout<<"you enter an speial character"<<endl;
    }
}
```

Output:



10. Write a program to display ascii value of character.

```

#include<iostream>
using namespace std;
int main(){
    char a;
    cout<<"enter the alphabet to change to ASCII code";
    cin>>a;
    cout<<"the value in ASCII code:"<<int(a)<<endl;
    return 0;
}

```

Output:

