**qwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmrtyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmrtyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmrtyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmrtyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmrtyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmrtyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmrtyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnmqwertyuiopasdfghjklzxcvbnm**

|  |
| --- |
| Programming Fundamentals  Assignment # 2  Name=Muhammad Abdullah  Class/Section=SE (A)  Roll No=19F-0916 |

Assignment # 1:

Ask user to enter two numbers and display smallest using ternary operator.

PROGRAM:

#include <iostream>

using namespace std;

int main() {

int i,x;

cout<<"Enter the 1st number ="<<endl;

cin>>i;

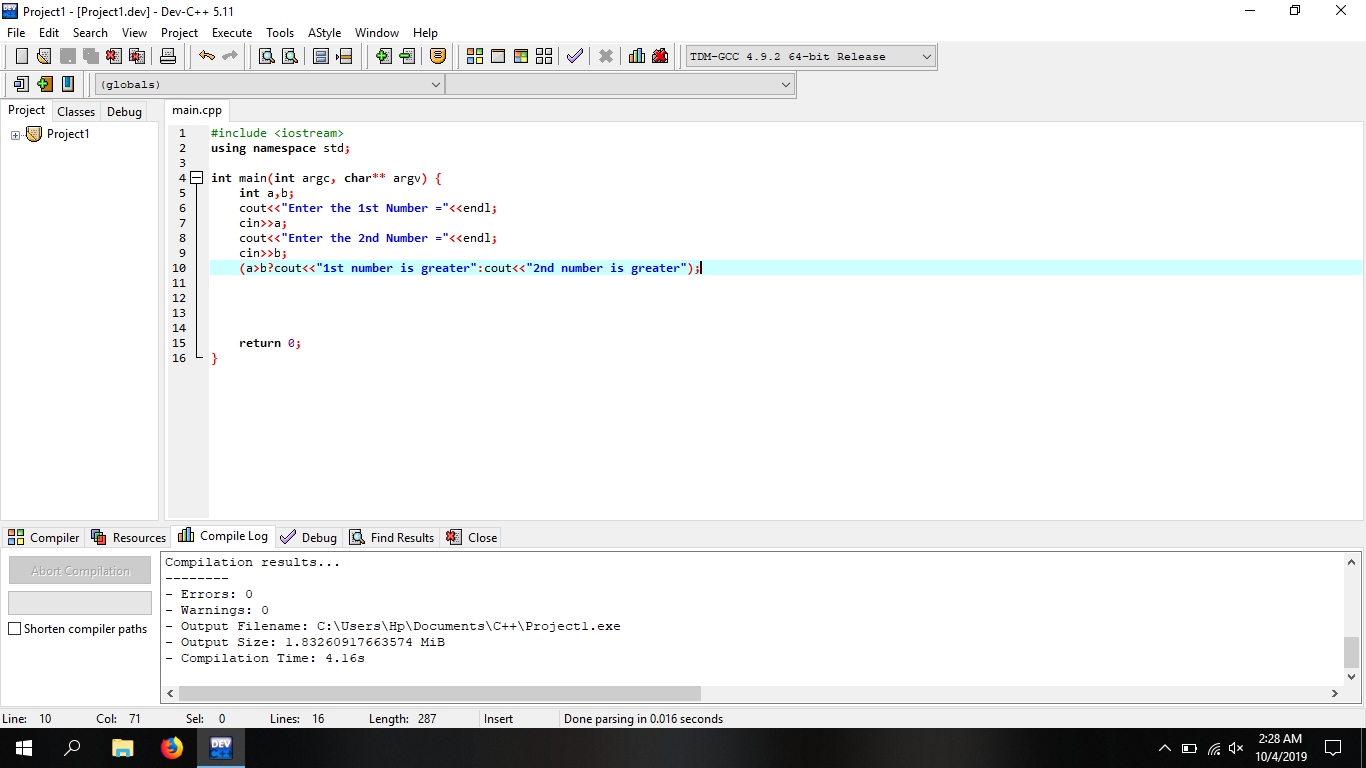
cout<<"Enter the 2nd number ="<<endl;

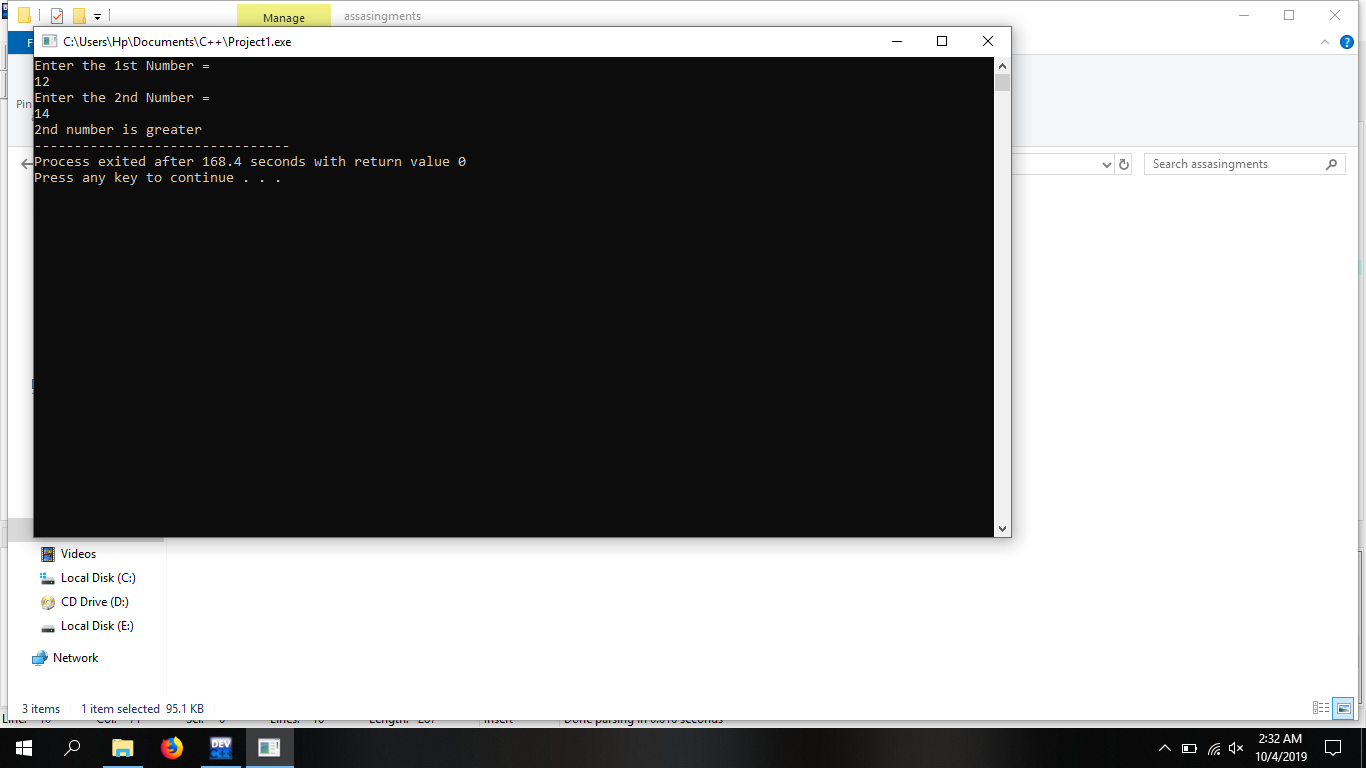
cin>>x;

(i>x?cout<<"1st number is greater":cout<<"2nd number is greater");

return 0;

}





Assignment # 2:

Print the number from 1 to 100 on screen.

PROGRAM:

#include <iostream>

using namespace std;

int main() {

int i;

for(i=1;i<=100;i++)

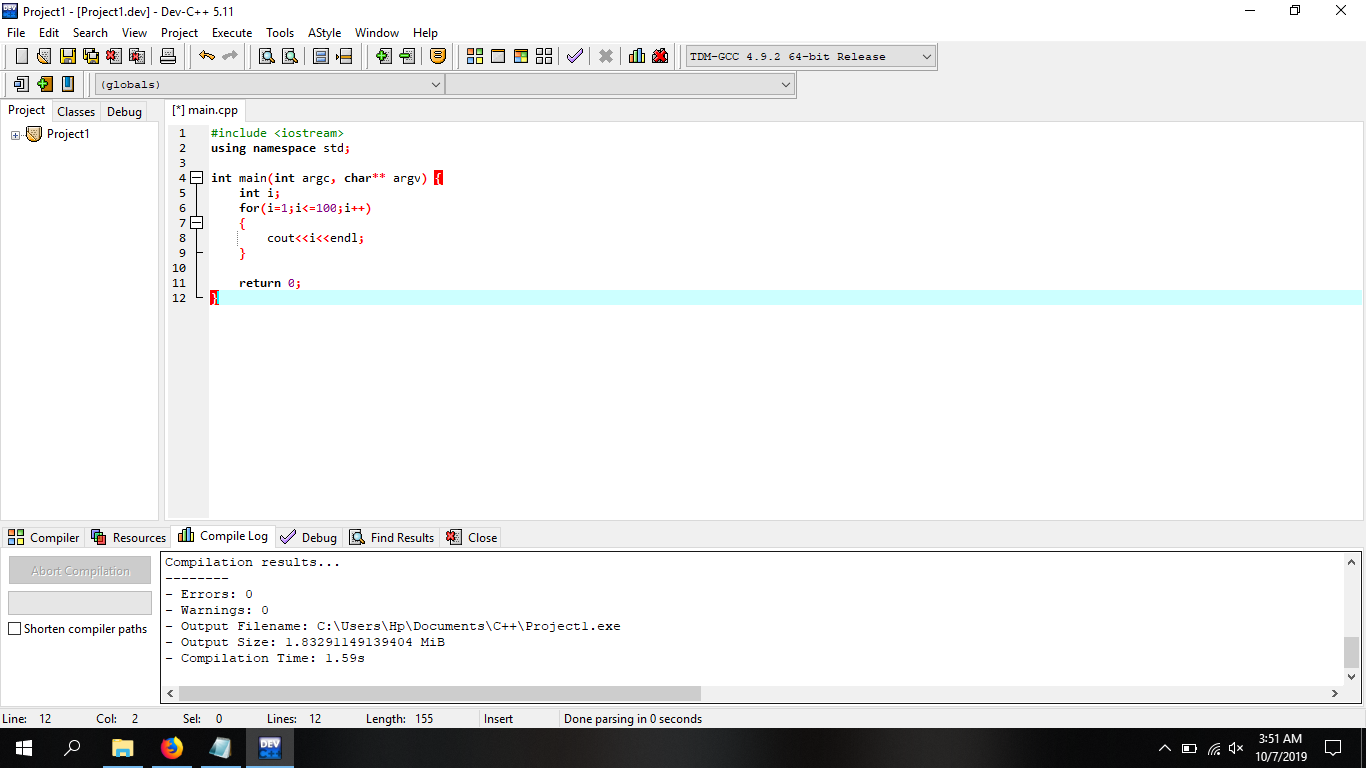
{

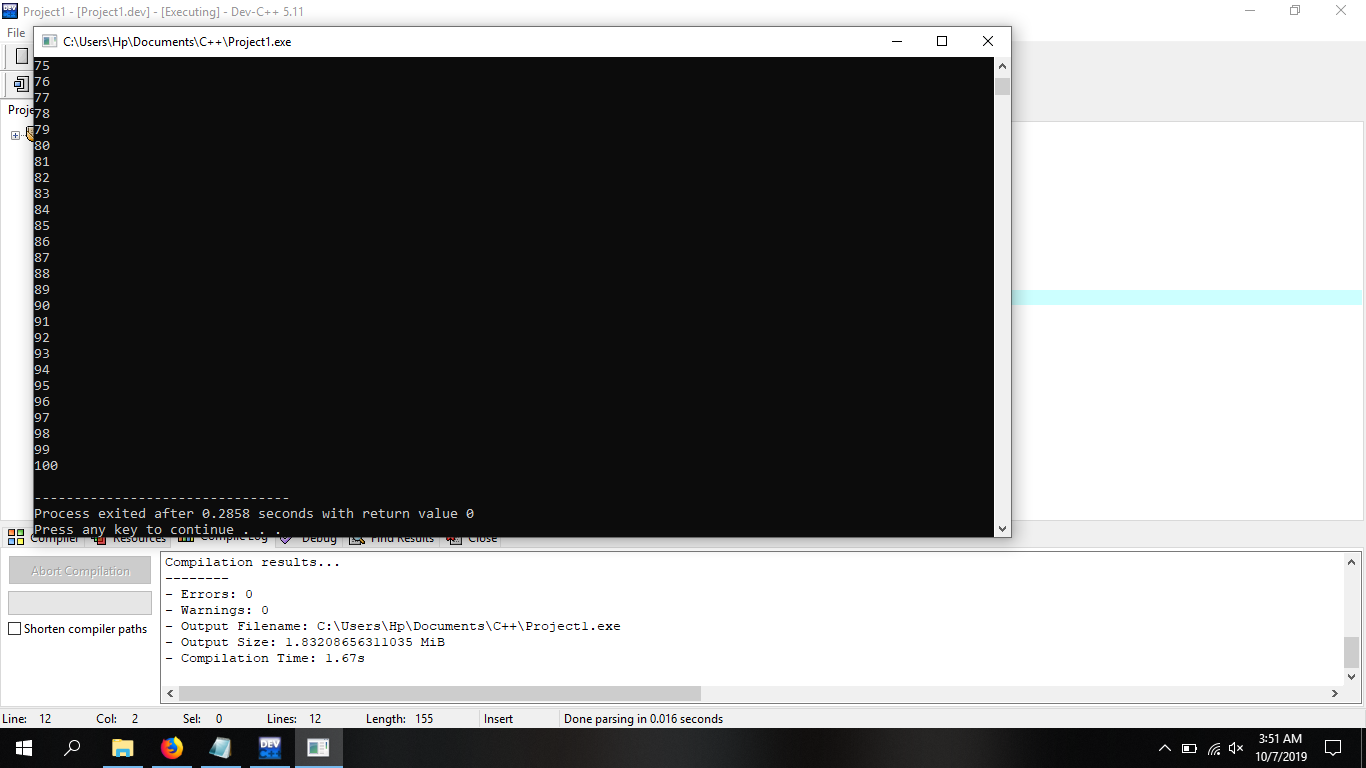
cout<<i<<endl;

}

return 0;

}





Assignment # 3:

Print numbers 1 to 100 in reverse order.

PROGRAM:

#include <iostream>

using namespace std;

int main(int argc, char\*\* argv) {

int i;

for(i=100;i>=1;i--)

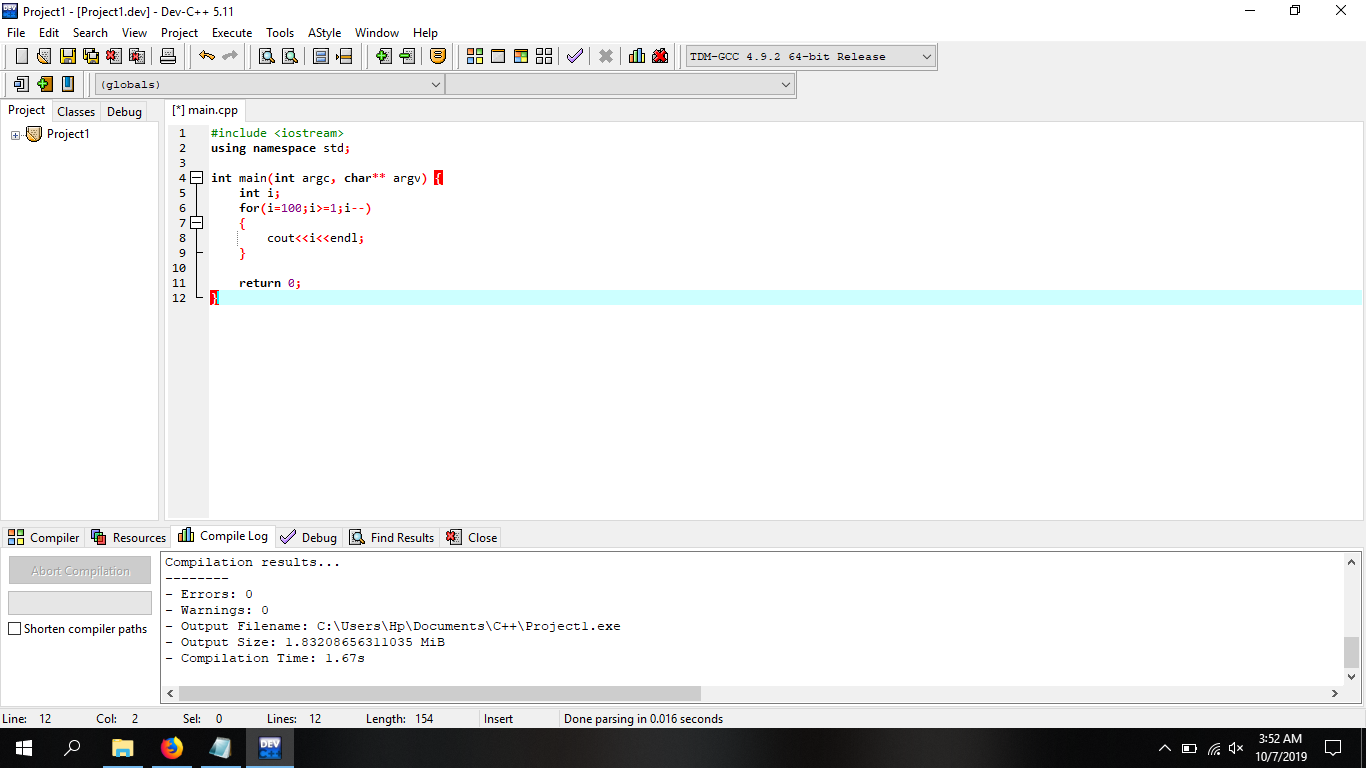
{

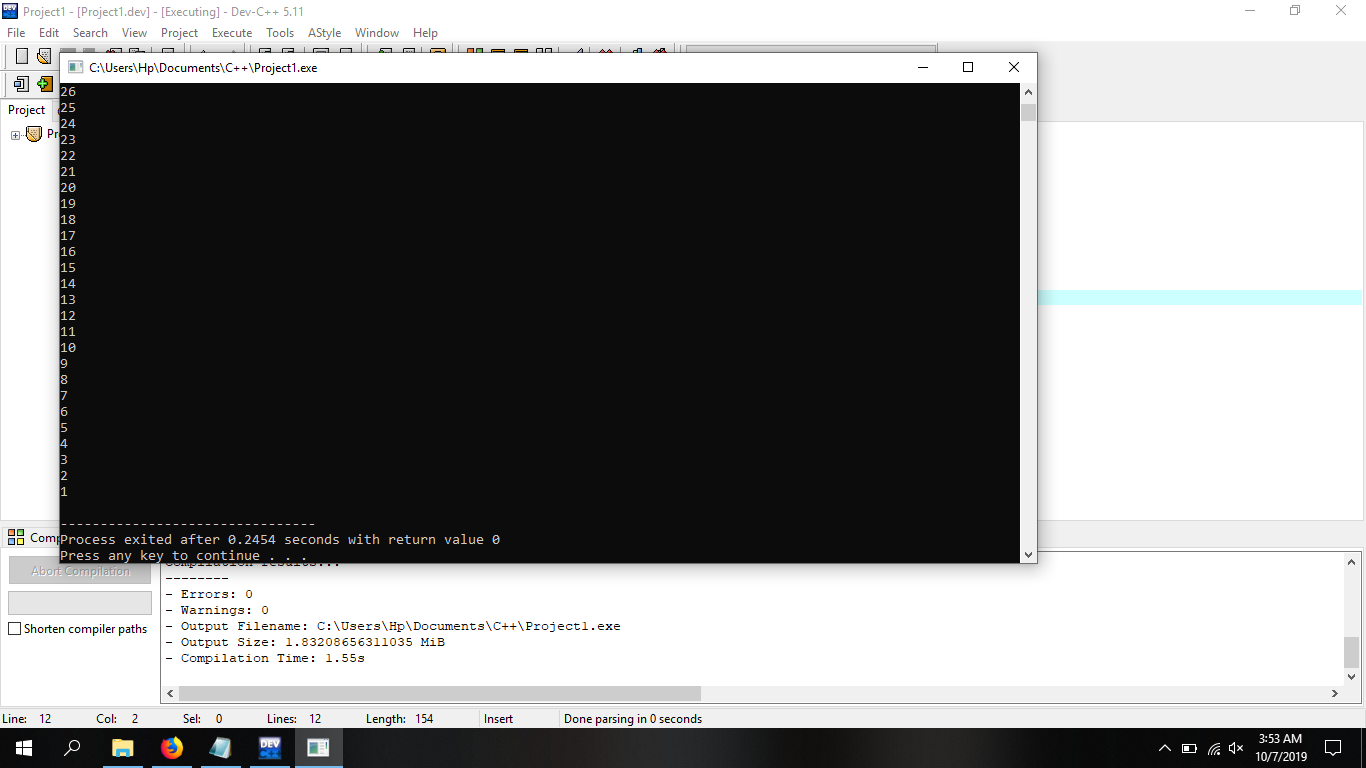
cout<<i<<endl;

}

return 0;

}





Assignment # 4:

Ask the user to enter a number and print digit from 0 to that number using the for loop.

PROGRAM:

#include <iostream>

using namespace std;

int main(int argc, char\*\* argv) {

int i,a;

cout<<"Enter a number = ";

cin>>a;

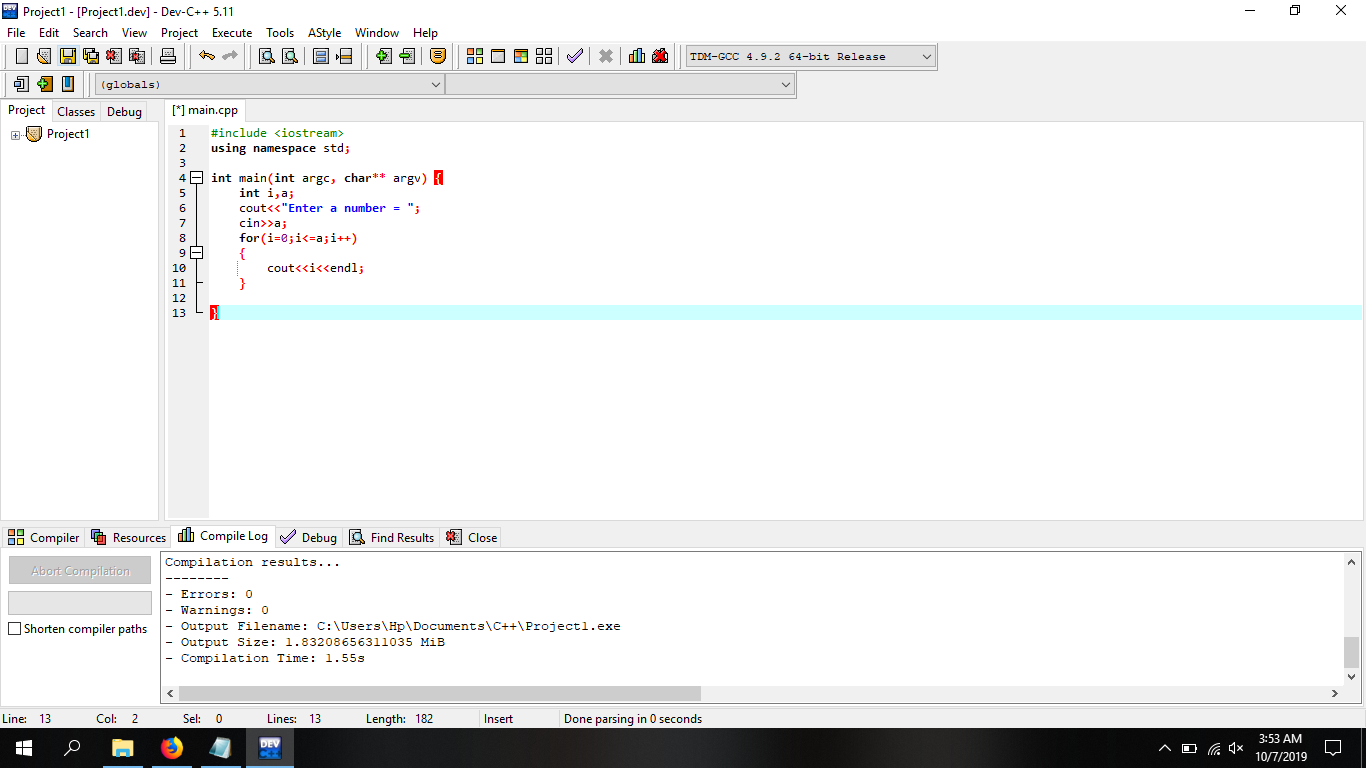
for(i=0;i<=a;i++)

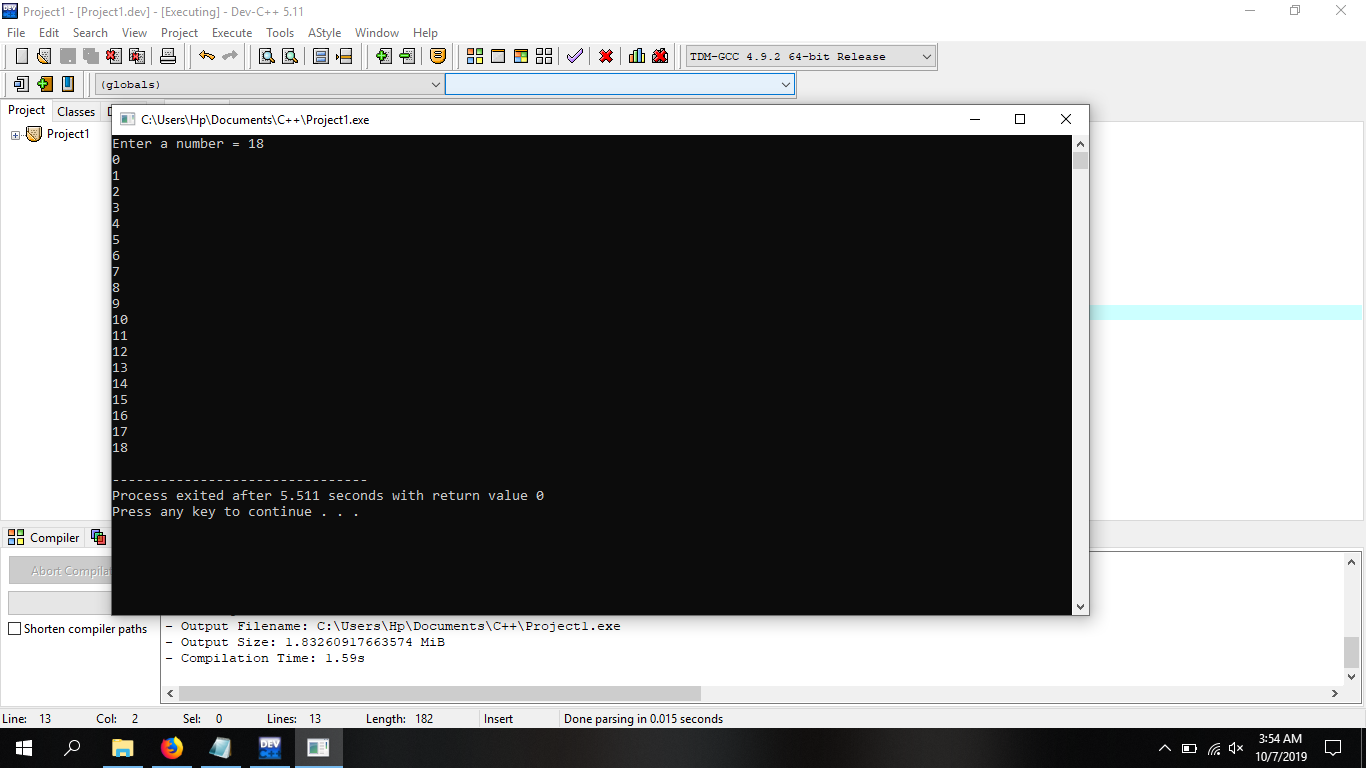
{

cout<<i<<endl;

}

}





Assignment # 5:

Print number from 0 to 50 in reverse order using for loop.

PROGRAM:

#include <iostream>

using namespace std;

int main(int argc, char\*\* argv) {

int i;

for(i=50;i>=0;i--)

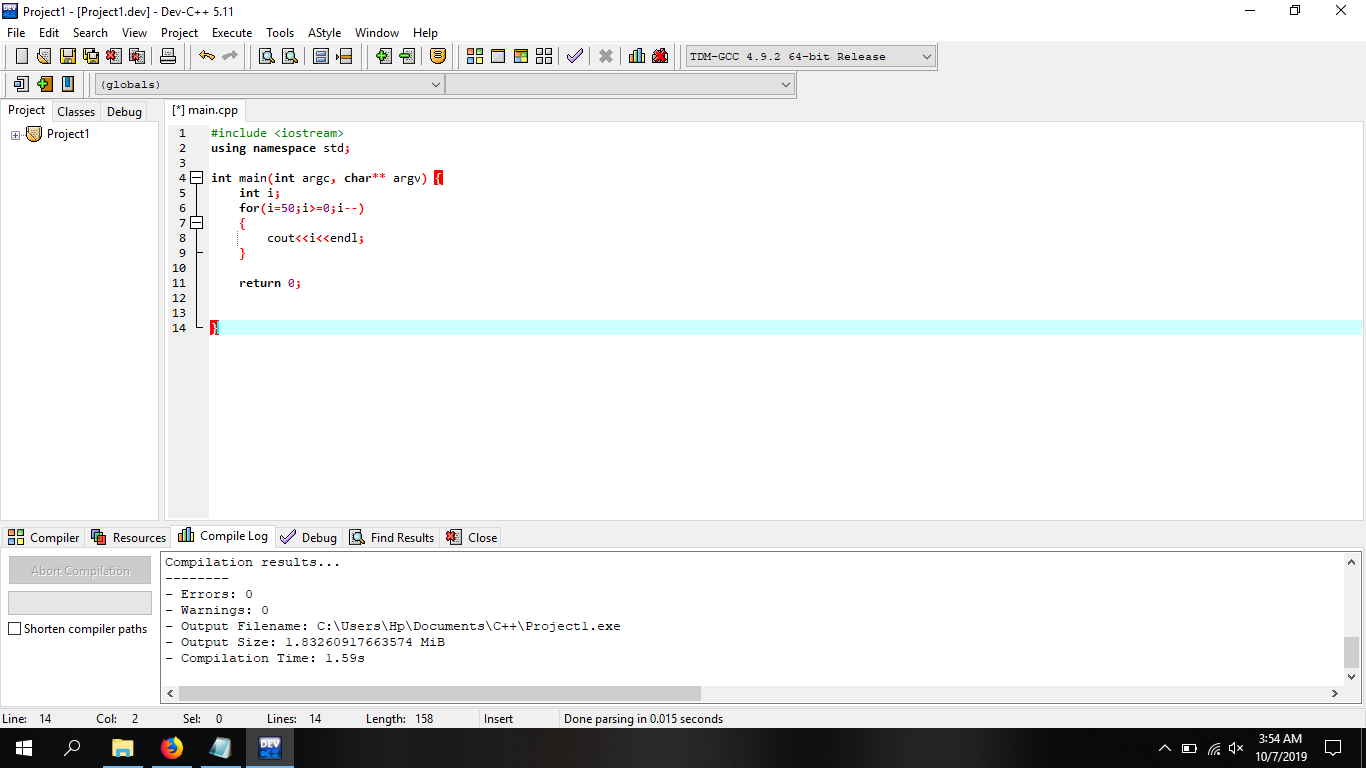
{

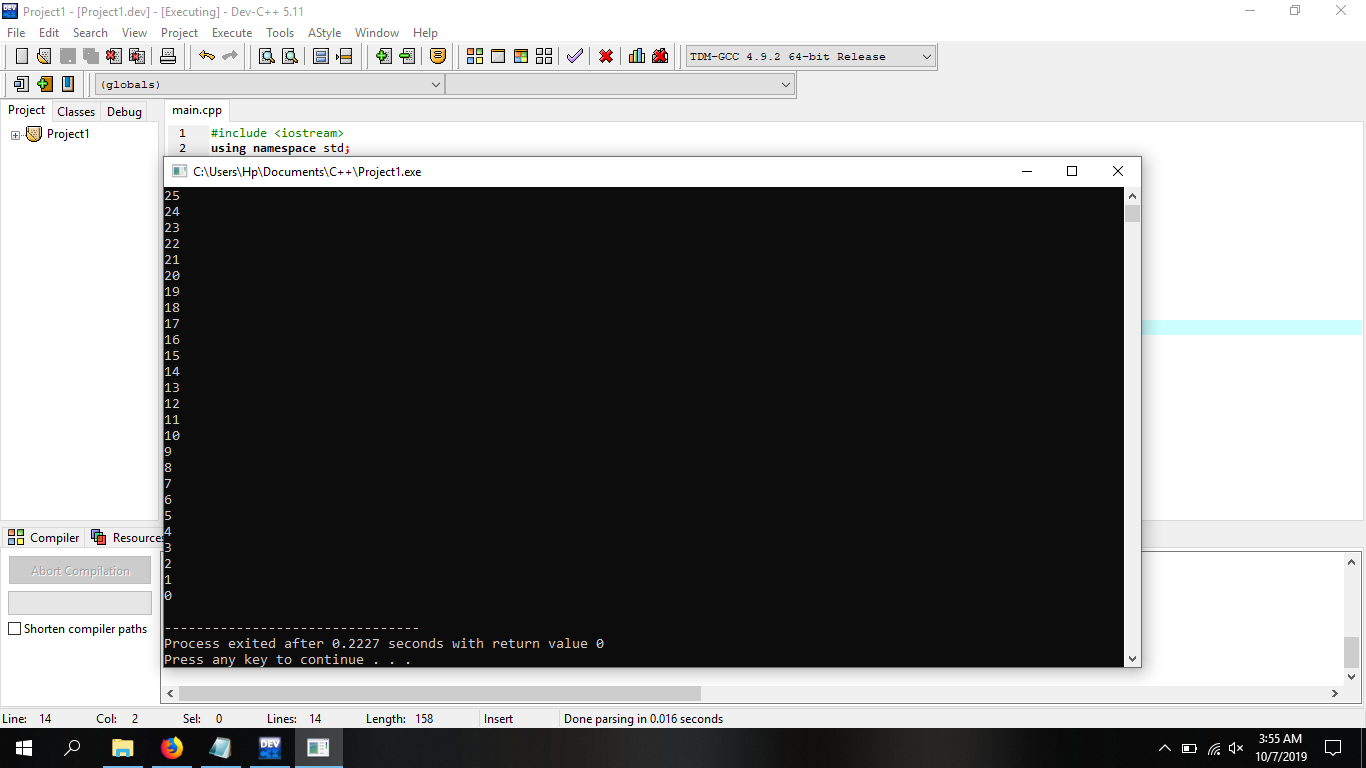
cout<<i<<endl;

}

return 0;

}





Assignment # 6:

Print the even and odd numbers between 0 to 50 using for loop.

PROGRAM:

#include <iostream>

using namespace std;

int main(int argc, char\*\* argv) {

int i;

for(i=0;i<=50;i++)

{

if (i%2==0)

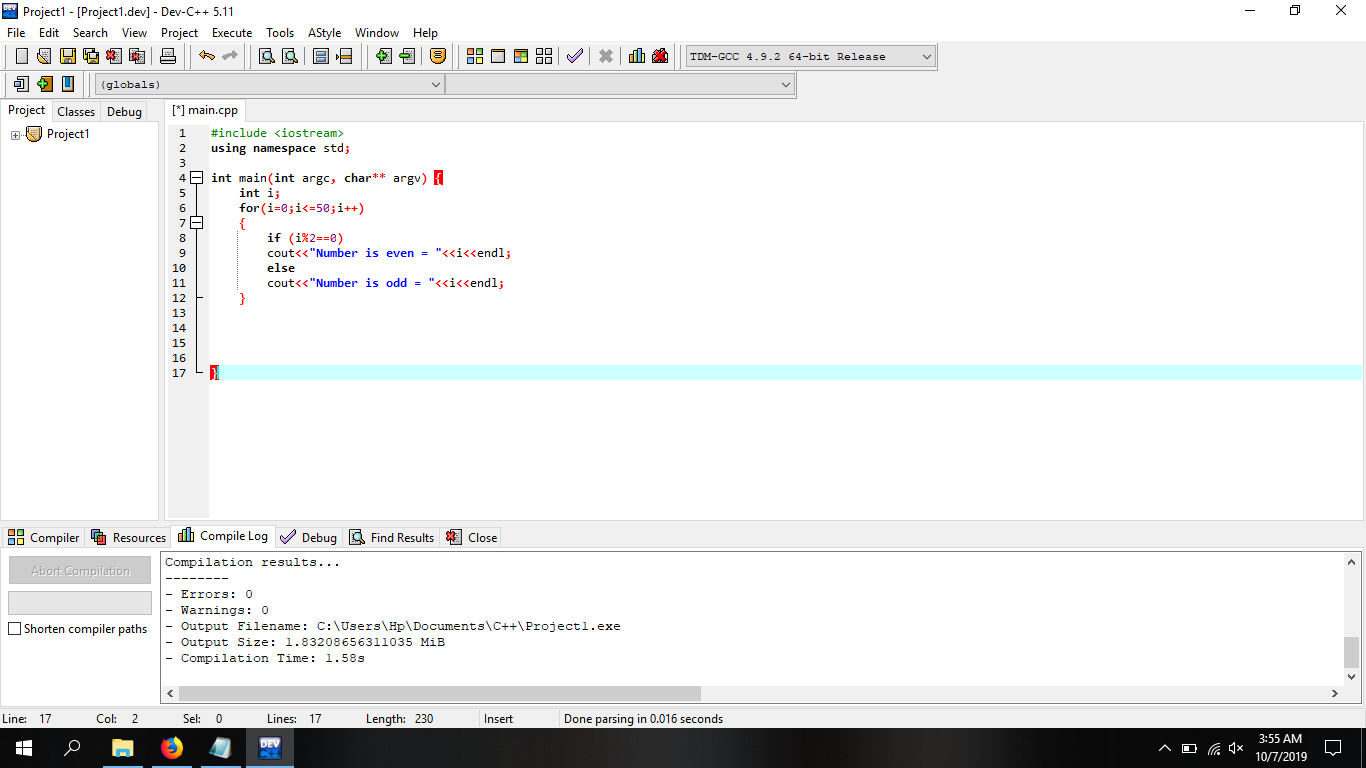
cout<<"Number is even = "<<i<<endl;

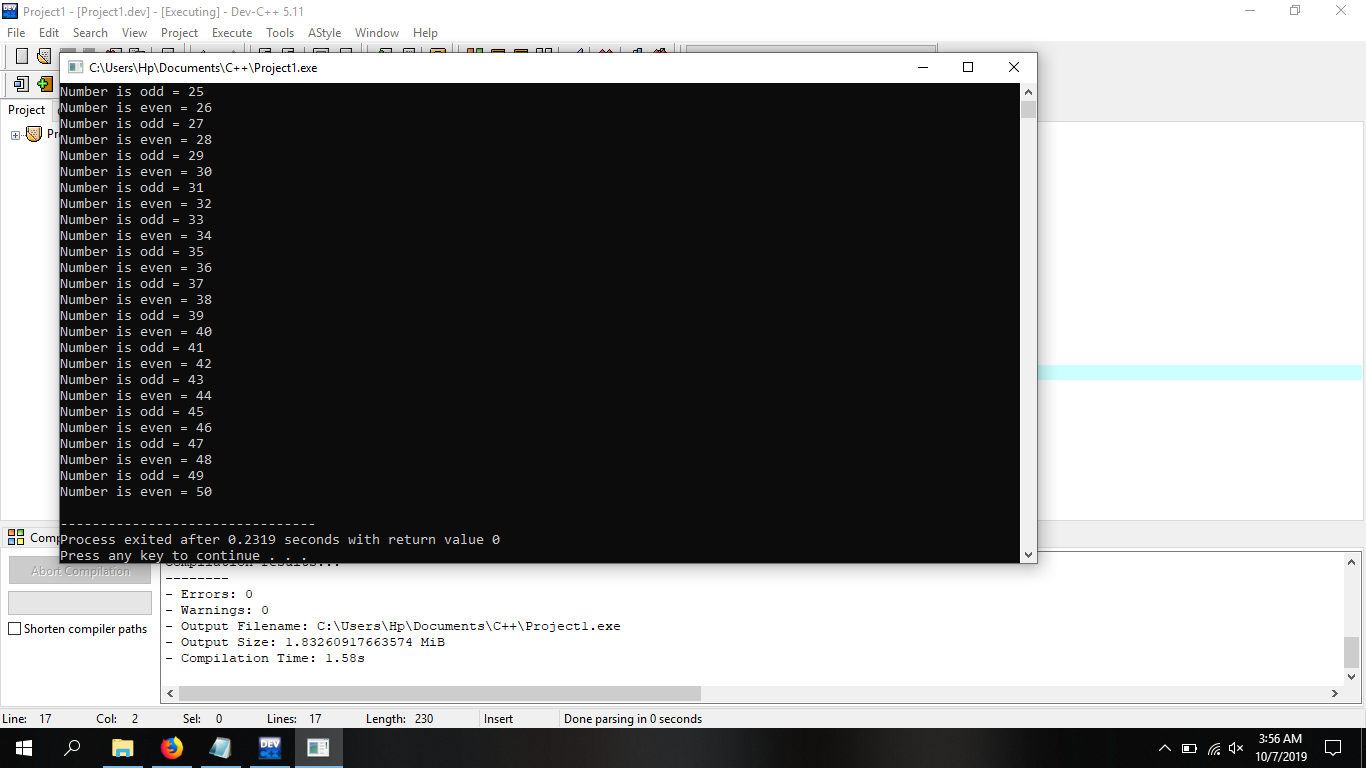
else

cout<<"Number is odd = "<<i<<endl;

}

}





Assignment # 7:

Add digits from 1 to 25.

PROGRAM:

#include <iostream>

using namespace std;

int main(int argc, char\*\* argv) {

int i,x;

for(i=1;i<=25;i++)

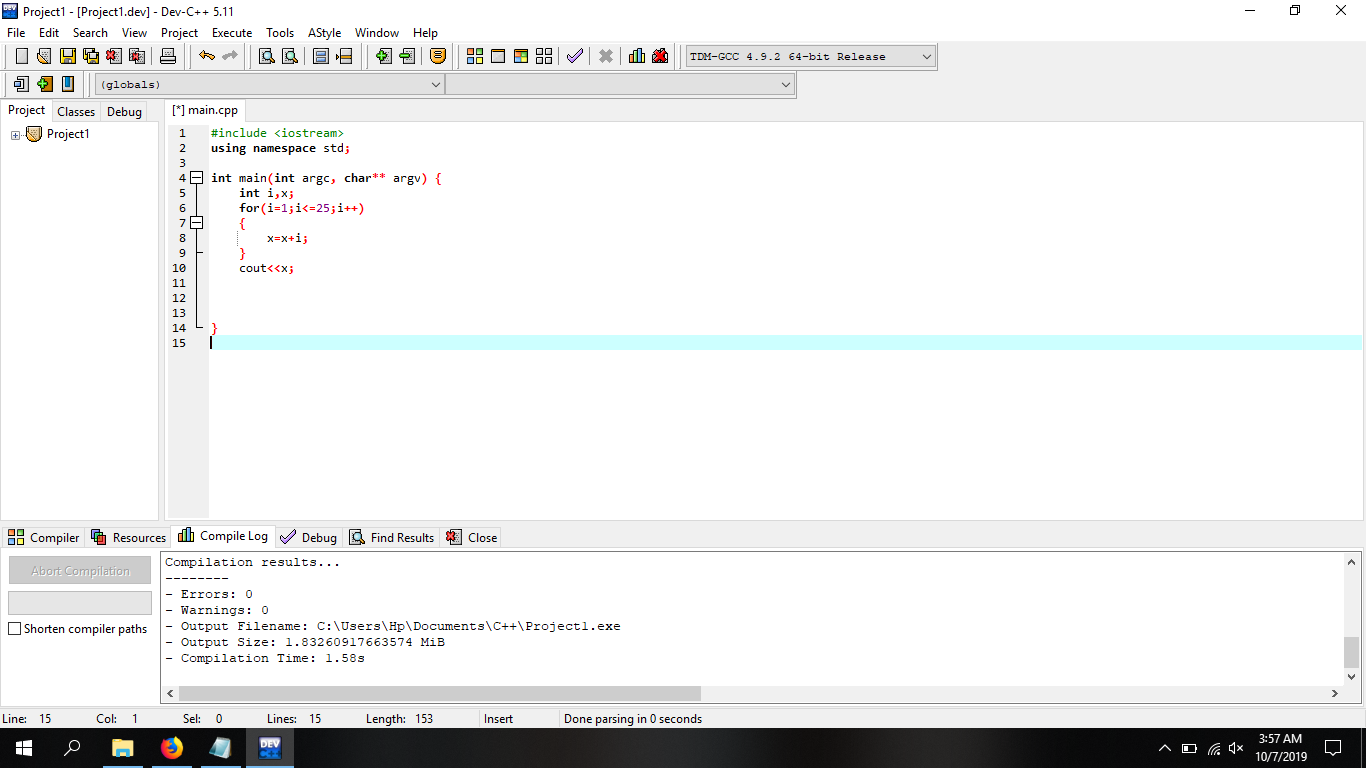
{

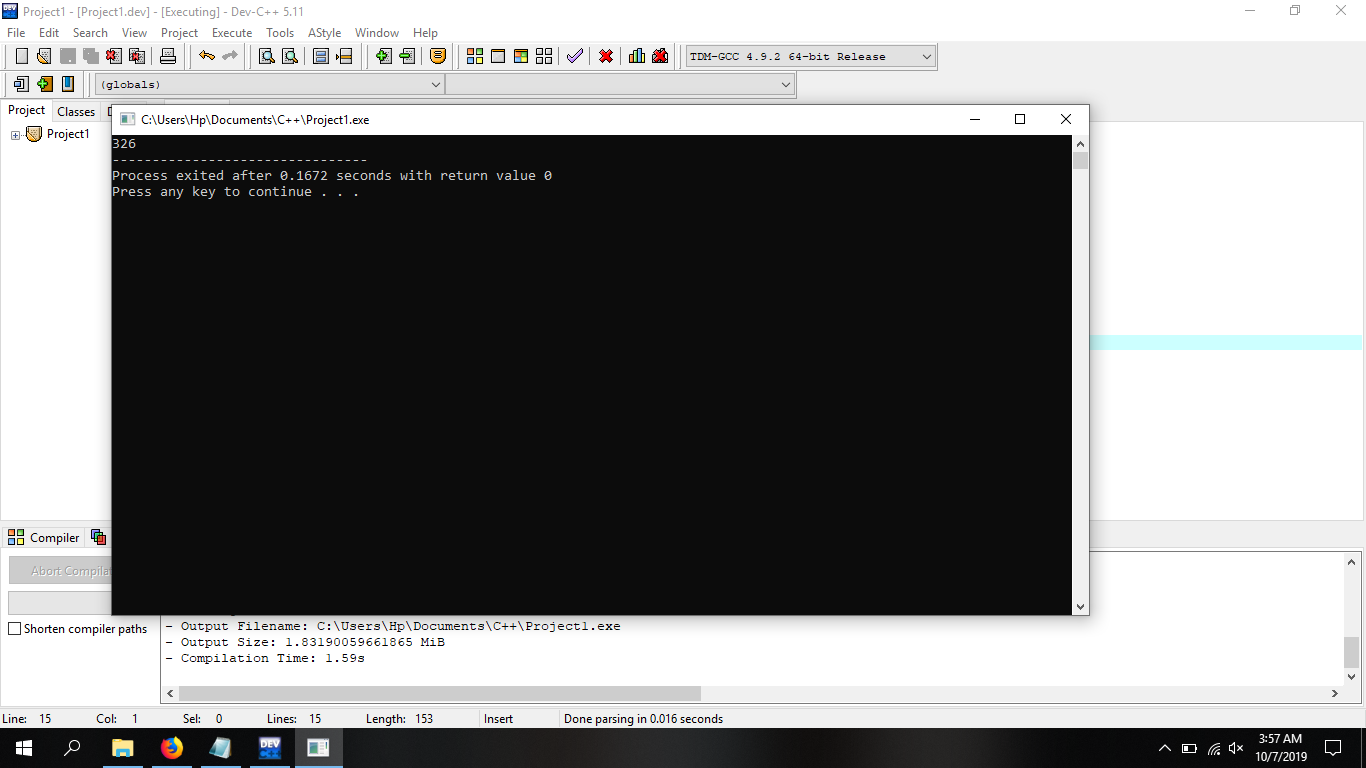
x=x+i;

}

cout<<x;

}





Assignment # 8:

Display the average of digits from 1 to 25.

PROGRAM:

#include <iostream>

using namespace std;

int main(int argc, char\*\* argv) {

int i,x;

for(i=1;i<=25;i++)

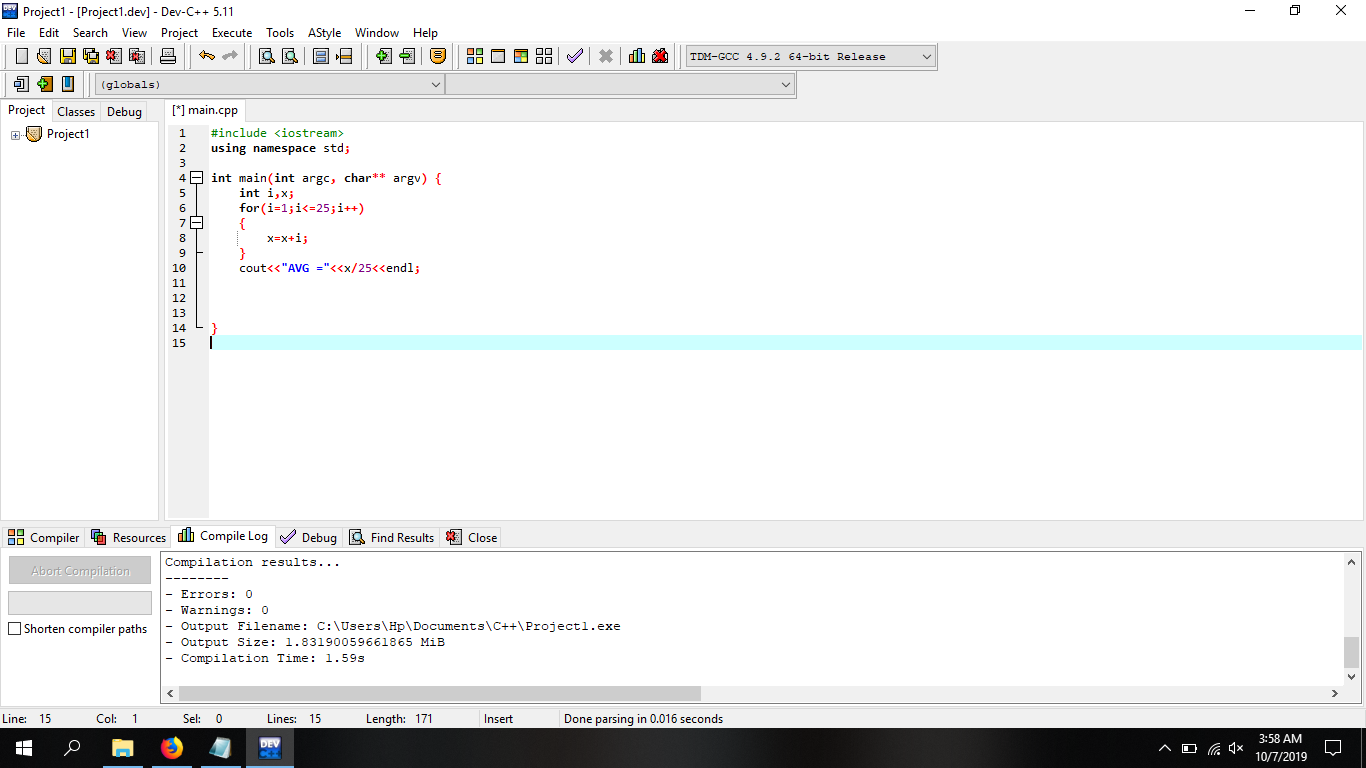
{

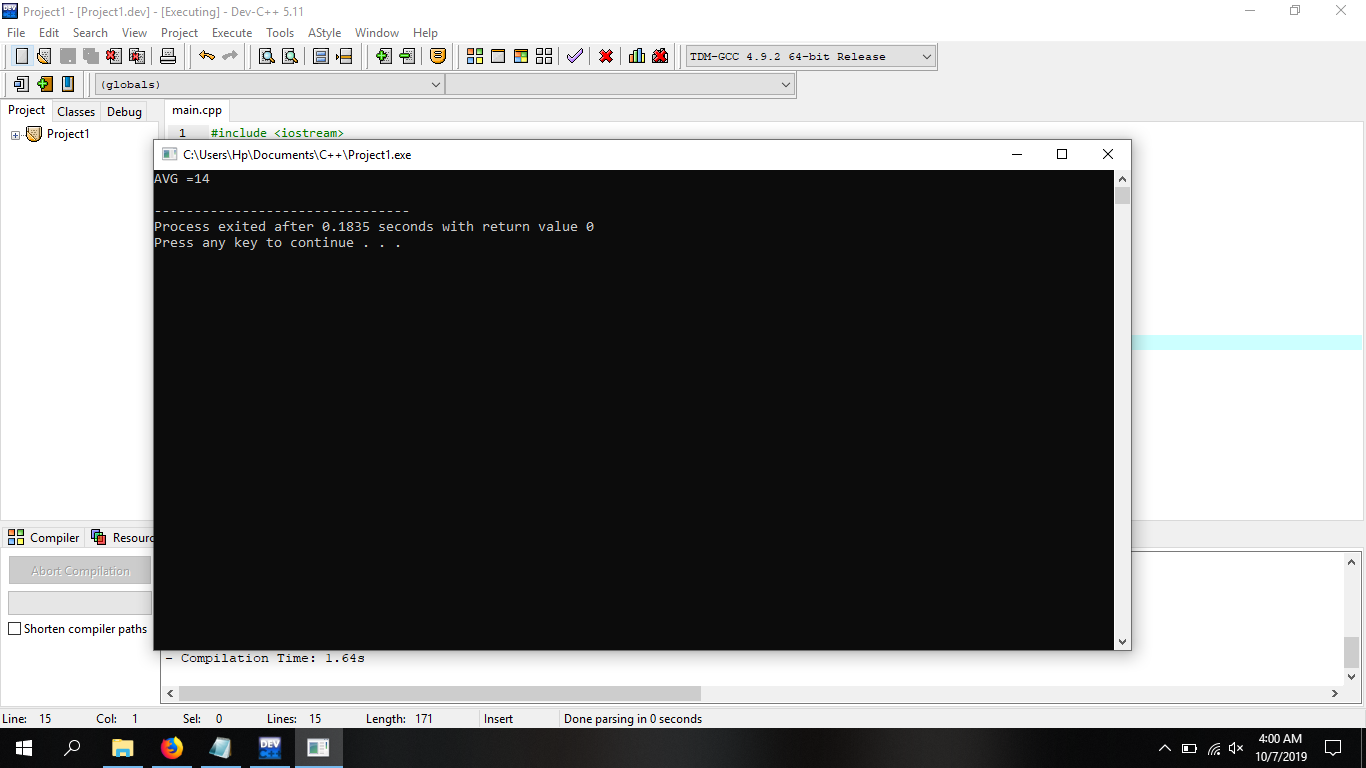
x=x+i;

}

cout<<"AVG ="<<x/25<<endl;

}





Assignment # 9:

Input the marks of 10 students and display their average. Use for loop for this purpose.

PROGRAM:

#include <iostream>

using namespace std;

int main(int argc, char\*\* argv) {

int i,x,y;

for(i=1;i<=10;i++)

{

cout<<"Input marks "<<endl;

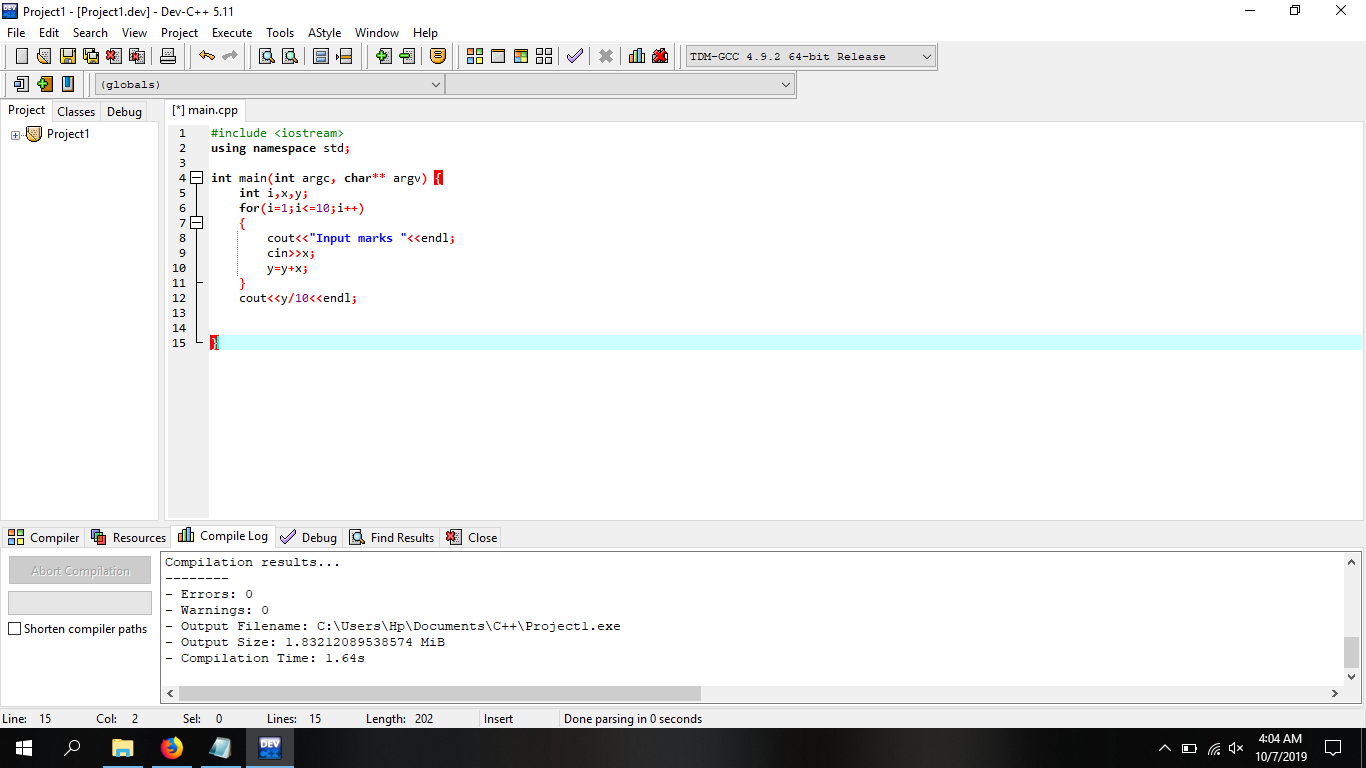
cin>>x;

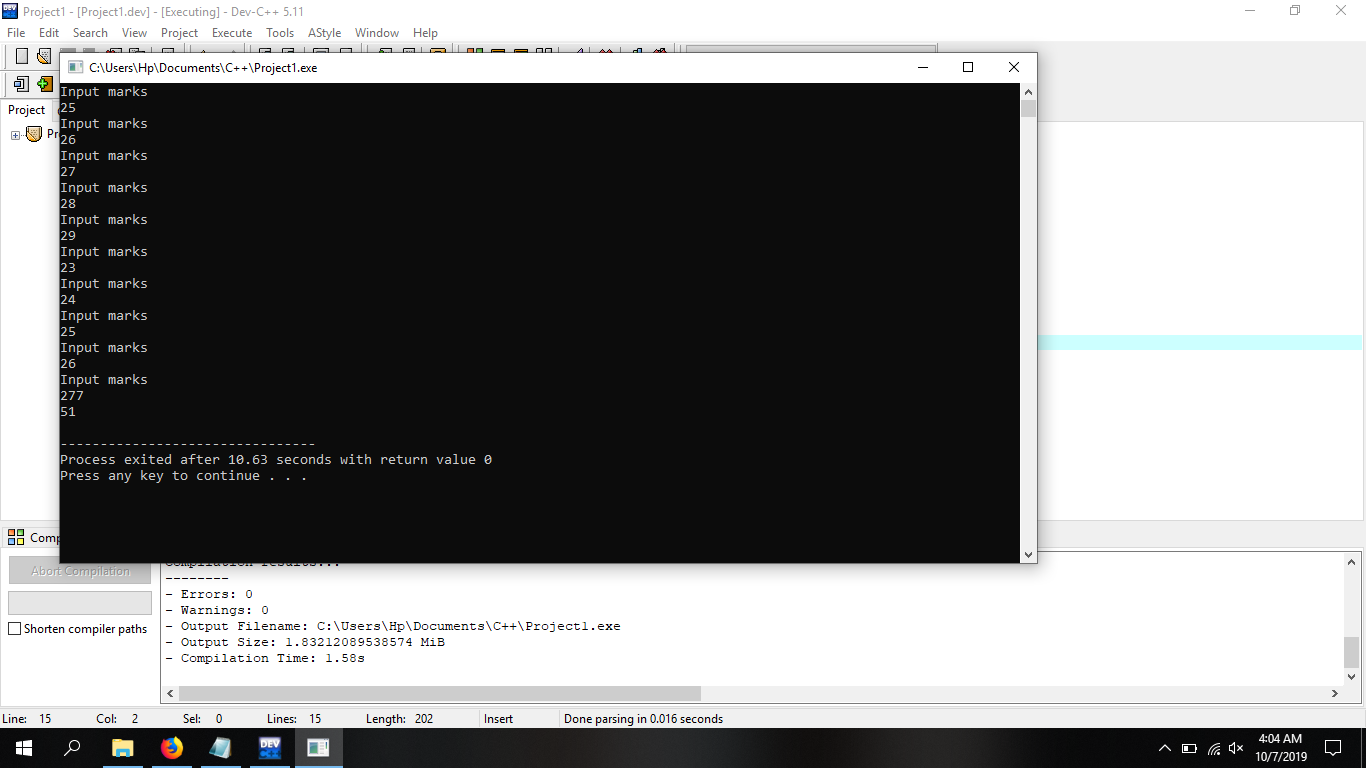
y=y+x;

}

cout<<y/10<<endl;

}





Assignment # 10:

Enter a program to calculate total number of male or female from 10 given inputs by the user in the form of M/F.

PROGRAM:

#include <iostream>

using namespace std;

int main(int argc, char\*\* argv) {

int i,m,f;

char x;

for(i=1;i<=10;i++)

{

cout<<"Enter the gender in the form of M/F = ";

cin>>x;

if(x=='m'||x=='M')

m=m+1;

if(x=='f'||x=='F')

f=f+1;

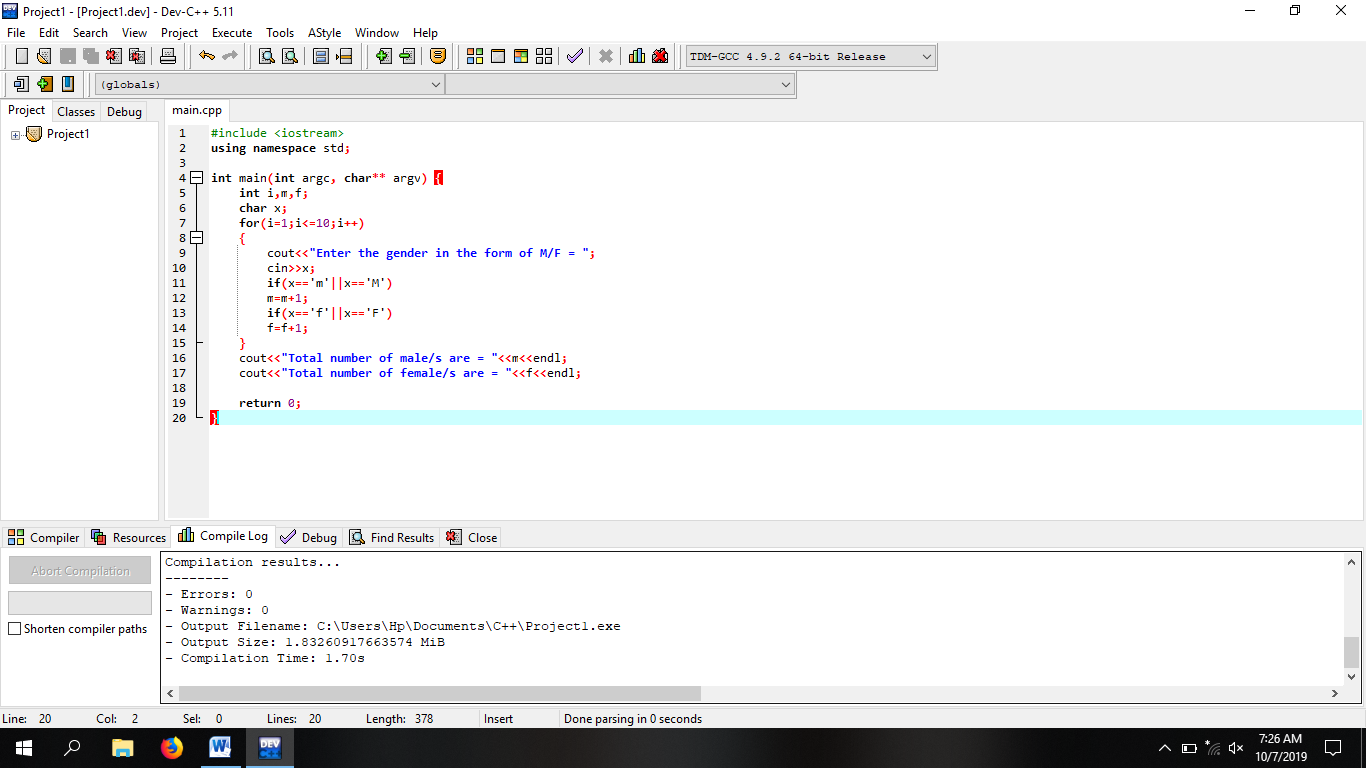
}

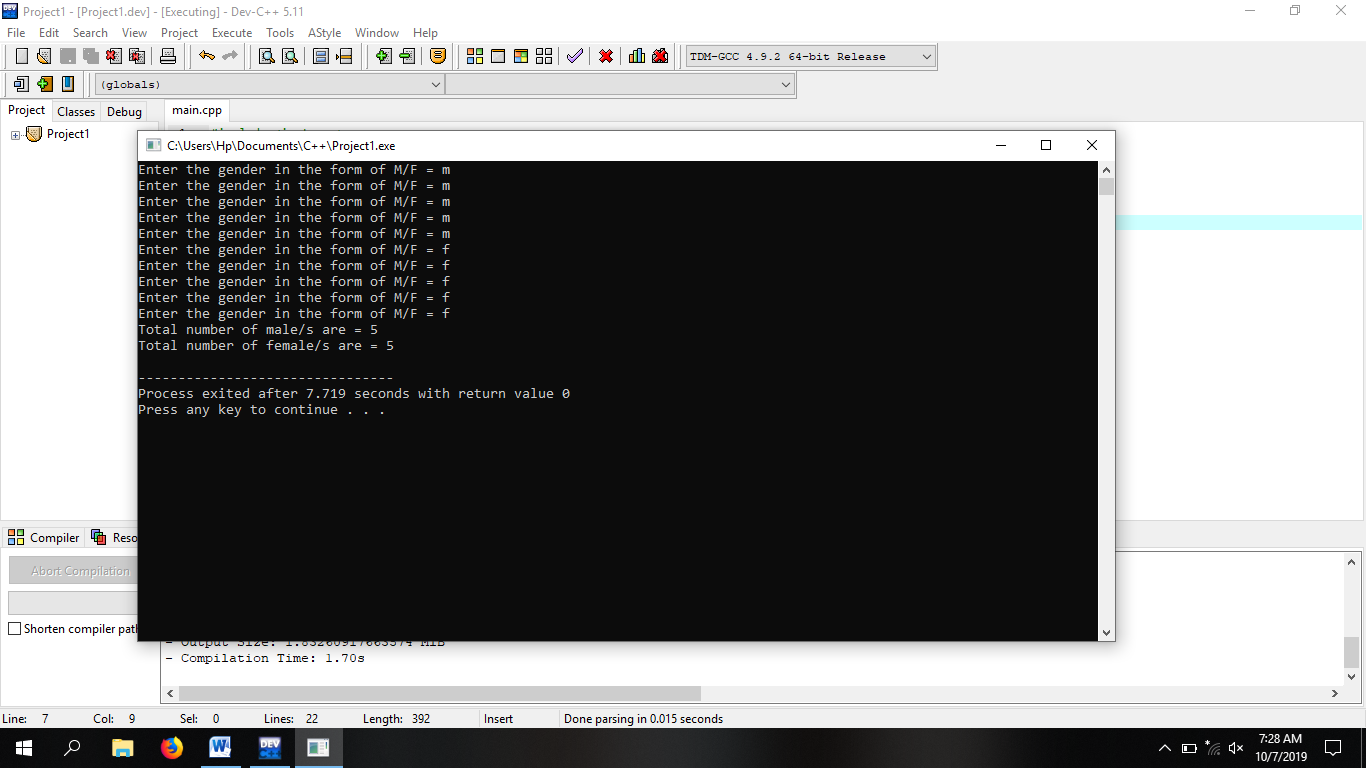
cout<<"Total number of male/s are = "<<m<<endl;

cout<<"Total number of female/s are = "<<f<<endl;

return 0;

}





Assignment # 11:

Input base and power. Display the result by taking power of the base. Use the for loop for this purpose.

PROGRAM:

#include <iostream>

using namespace std;

int main(int argc, char\*\* argv) {

int i,b,p,num=1;

cout<<"Enter value of base =";

cin>>b;

cout<<"Enter value of power =";

cin>>p;

for (i=1;i<=p;i++)

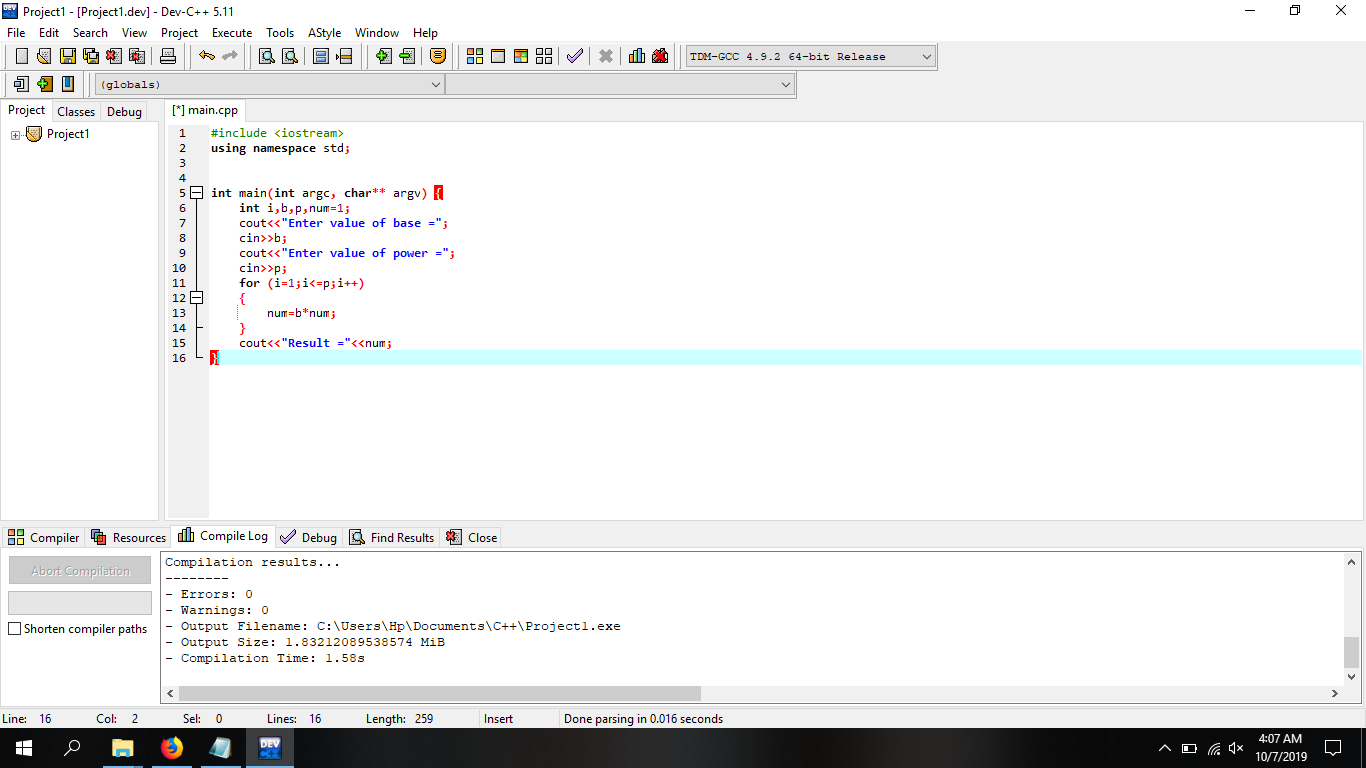
{

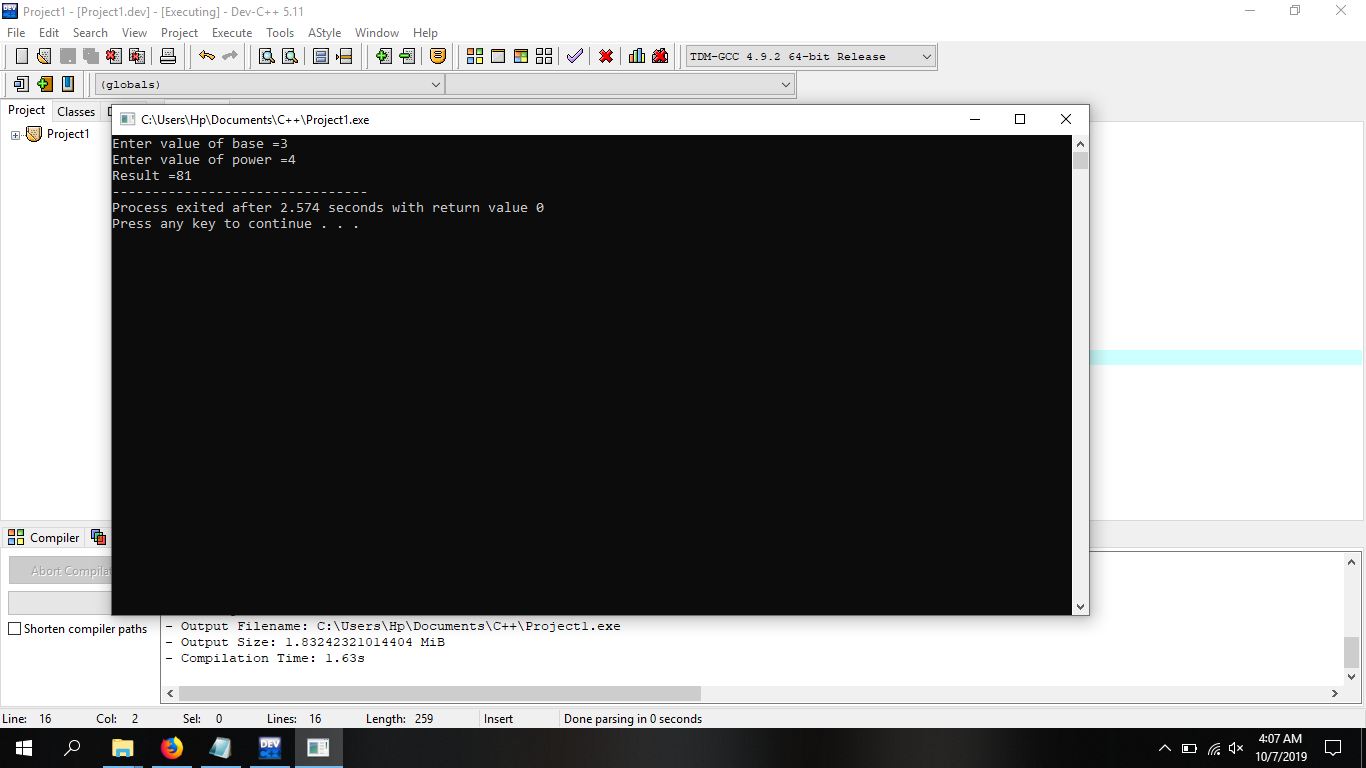
num=b\*num;

}

cout<<"Result ="<<num;

}





Assignment # 12:

Display the table up to 10 of given number.

PROGRAM:

#include <iostream>

using namespace std;

int main(int argc, char\*\* argv) {

int x,i;

cout<<"Enter a number = ";

cin>>x;

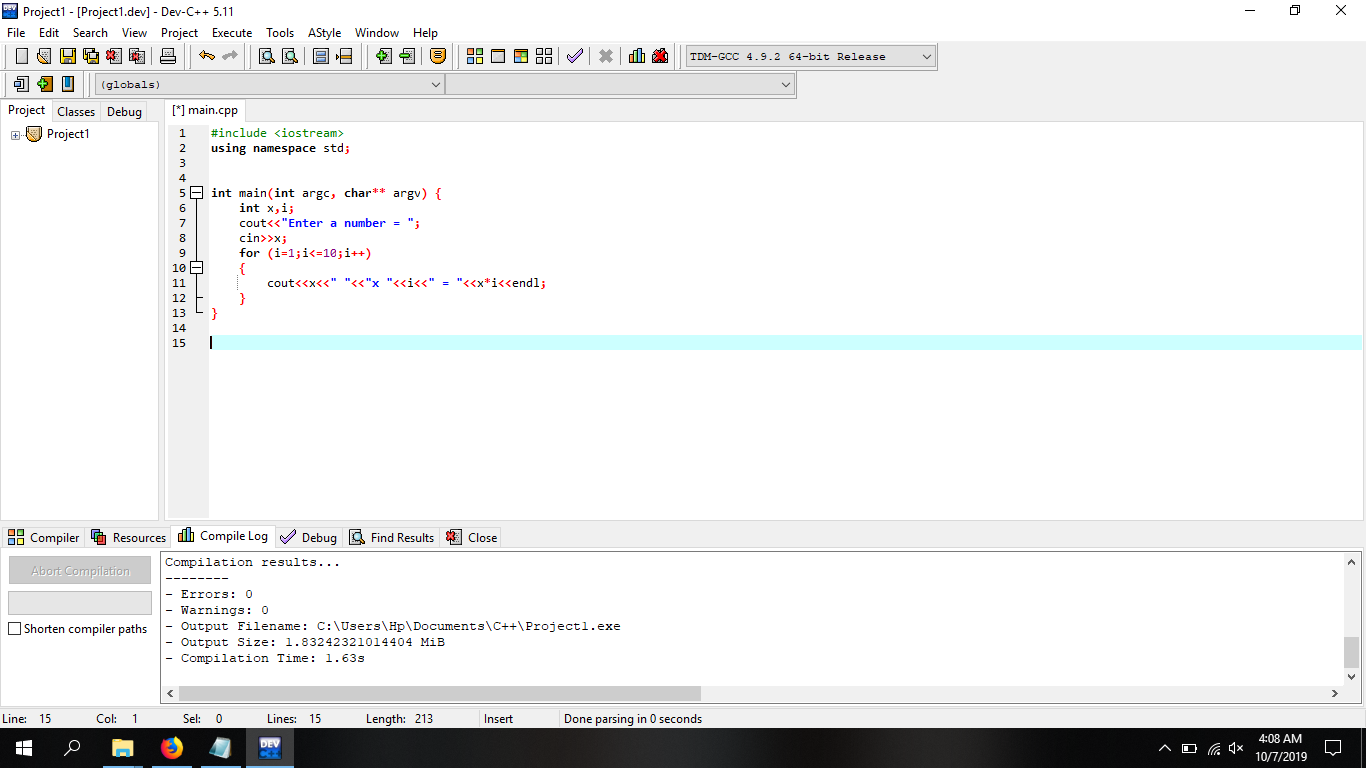
for (i=1;i<=10;i++)

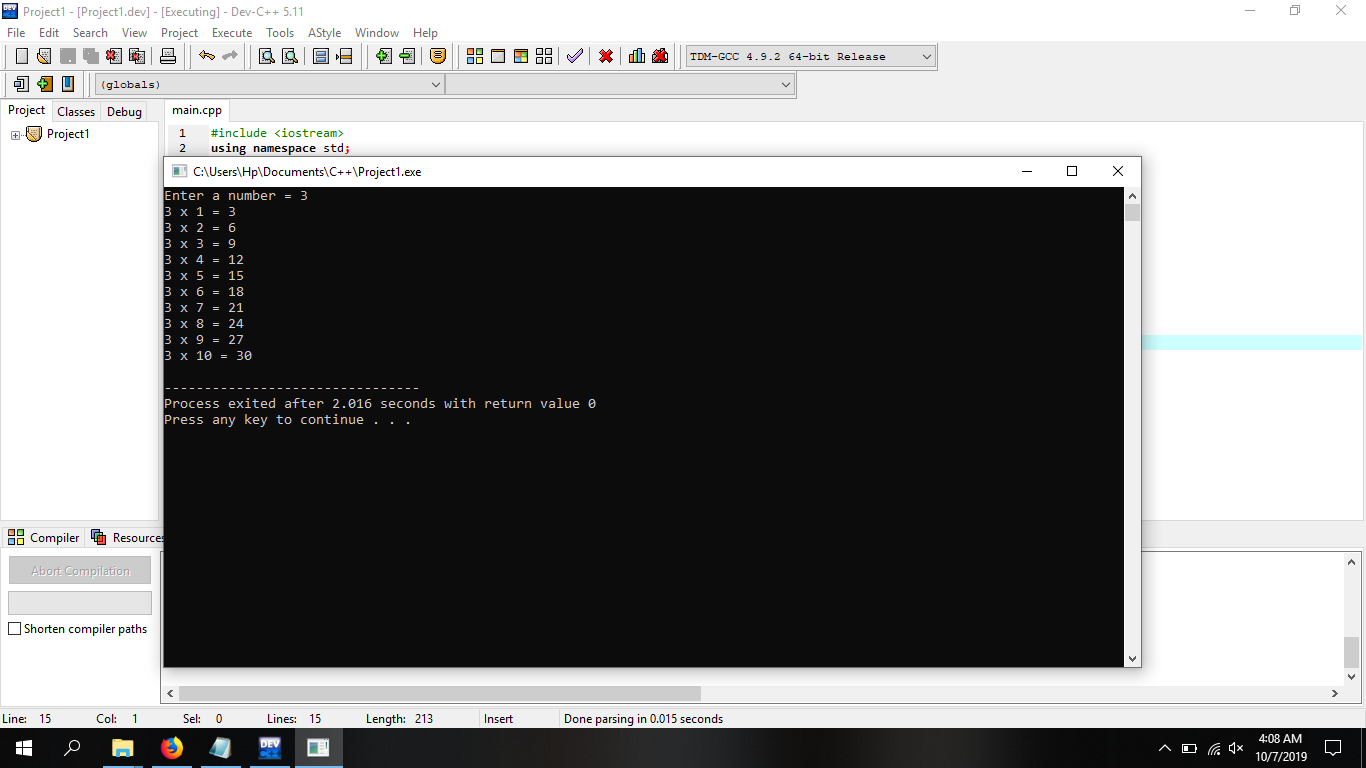
{

cout<<x<<" "<<"x "<<i<<" = "<<x\*i<<endl;

}

}





Assignment # 13:

Modify two number calculator and let it to perform basic arithmetic calculations.

PROGRAM:

#include <iostream>

using namespace std;

int main(int argc, char\*\* argv)

{

int a,b,x;

cout<<"Enter the First Number = ";

cin>>a;

cout<<"Enter the Second Number = ";

cin>>b;

cout<<"............................................."<<endl;

cout<<"Enter the Operator "<<endl;

cout<<"............................................."<<endl;

cout<<"Press 1 to Add the given numbers"<<endl;

cout<<"Press 2 to Subtract the given numbers"<<endl;

cout<<"Press 3 to Multiply the given numbers"<<endl;

cout<<"Press 4 to Divide the given numbers"<<endl;

cout<<"Press 5 to take Modulus of given numbers"<<endl;

cout<<"............................................."<<endl;

cout<<"Entered Operator = ";

cin>>x;

cout<<"............................................."<<endl;

switch(x)

{

case 1:

int sum;

sum=a+b;

cout<<"Addition of the given number is = "<<sum<<endl;

break;

case 2:

int sub;

sub=a-b;

cout<<"Subtraction of the given number is ="<<sub<<endl;

break;

case 3:

int mul;

mul=a\*b;

cout<<"Multiplication of the given number is = "<<mul<<endl;

break;

case 4:

int div;

div=a/b;

cout<<"Division of the given number is = "<<div<<endl;

break;

case 5:

int mod;

mod=a%b;

cout<<"Modulus of the given number is = "<<mod<<endl;

break;

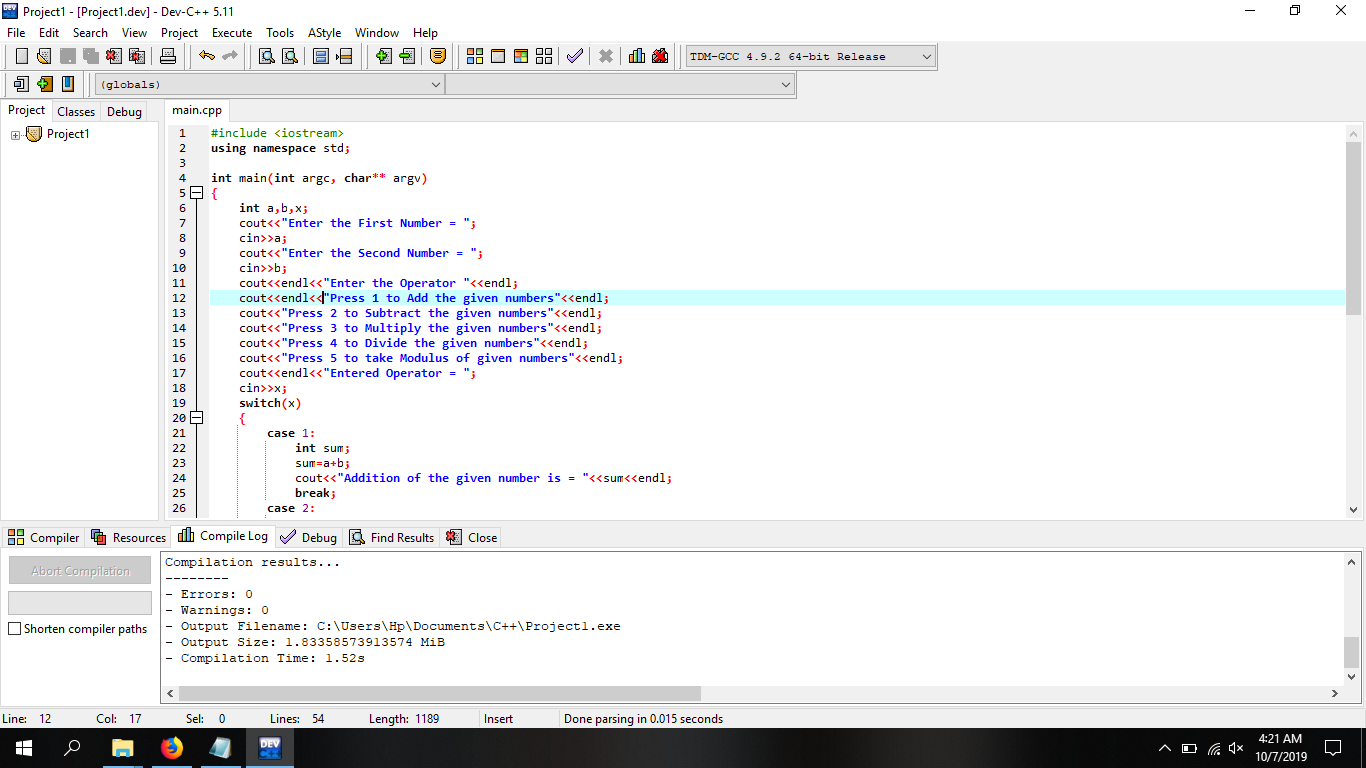
default:

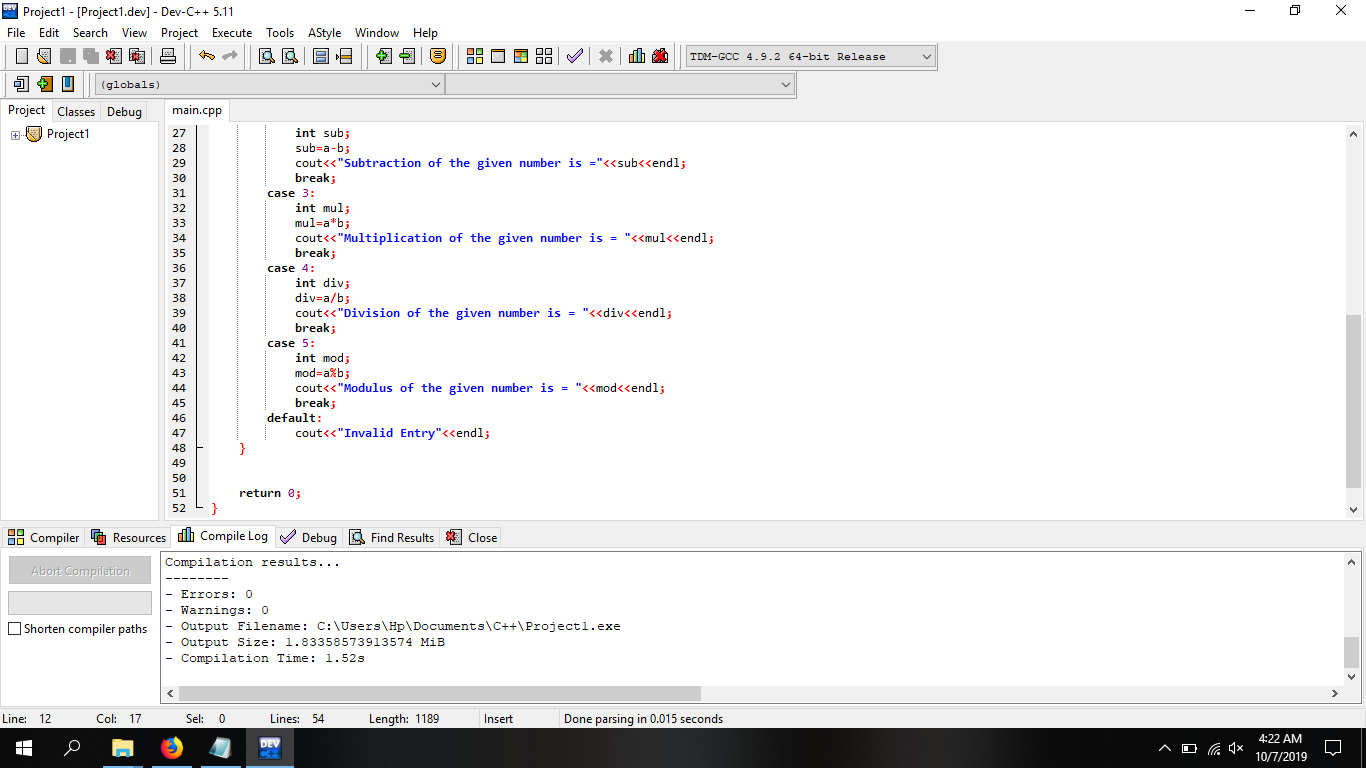
cout<<"Invalid Entry"<<endl;

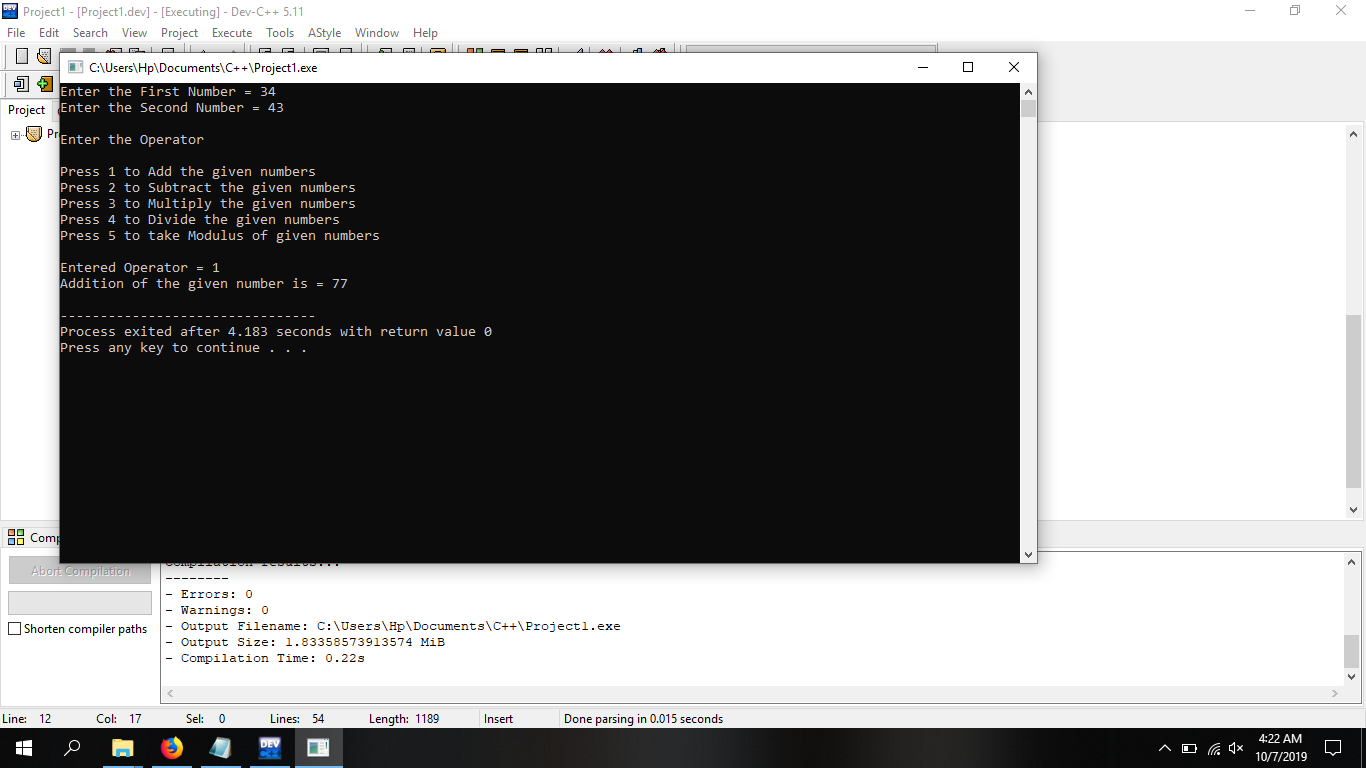
}

return 0;

}







Assignment # 14:

Write a program to tell whether the given number is prime or not.

PROGRAM:

#include <iostream>

using namespace std;

int main(int argc, char\*\* argv) {

int i,p,a=0;

cout<<"Enter a number = ";

cin>>p;

for(i=2;i<p;i++)

{

if (p%i==0)

{

cout<<"It is not a prime number"<<endl;

break;

}

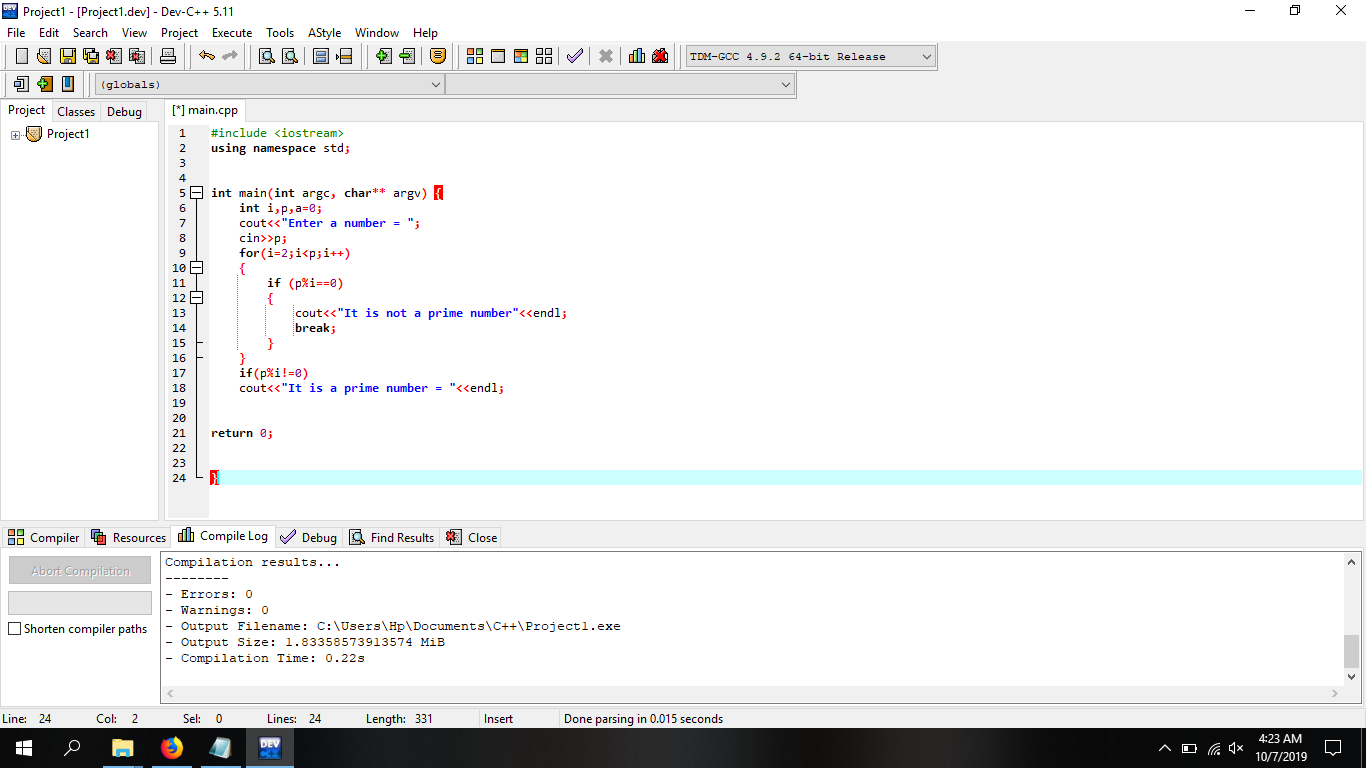
}

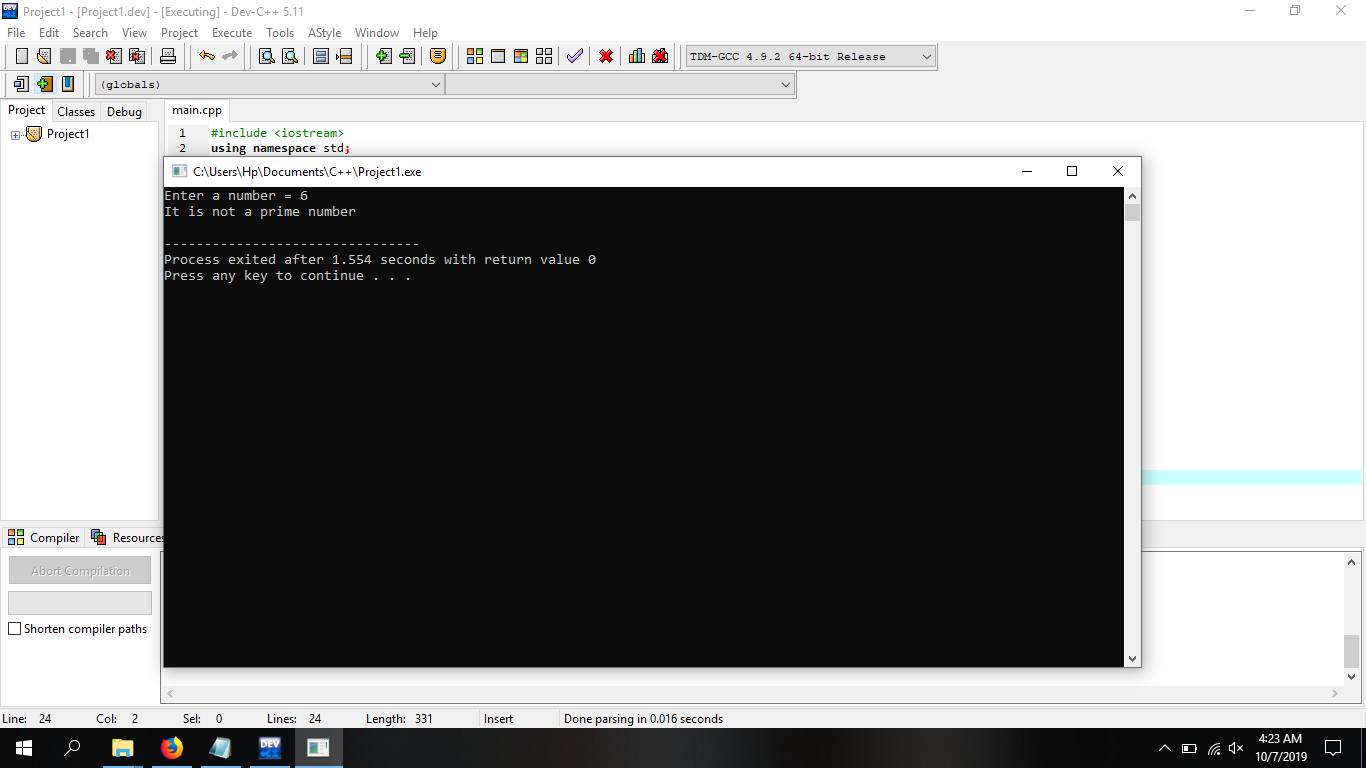
if(p%i!=0)

cout<<"It is a prime number = "<<endl;

return 0;

}





Assignment # 15:

Check whether the give number is even or odd.

PROGRAM:

#include <iostream>

using namespace std;

int main(int argc, char\*\* argv) {

int n;

cout<<"Enter a number = ";

cin>>n;

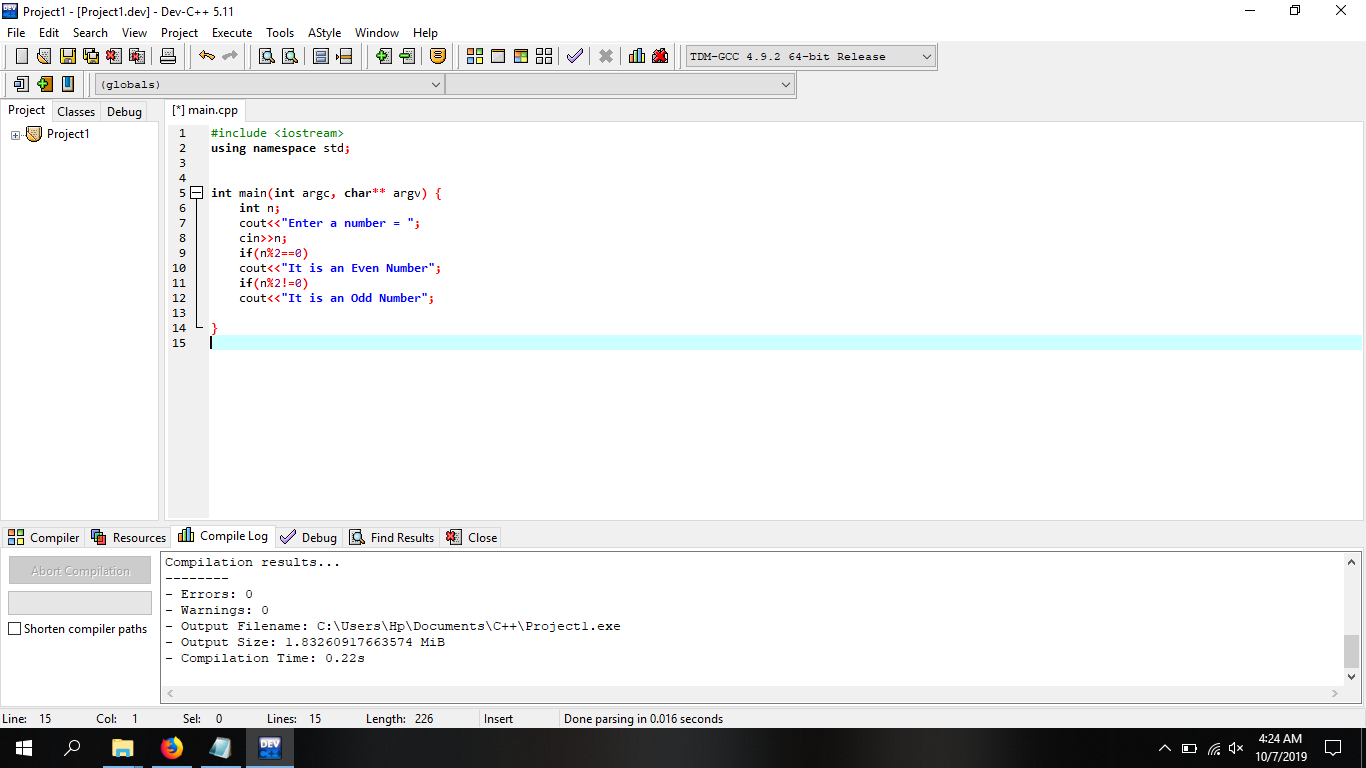
if(n%2==0)

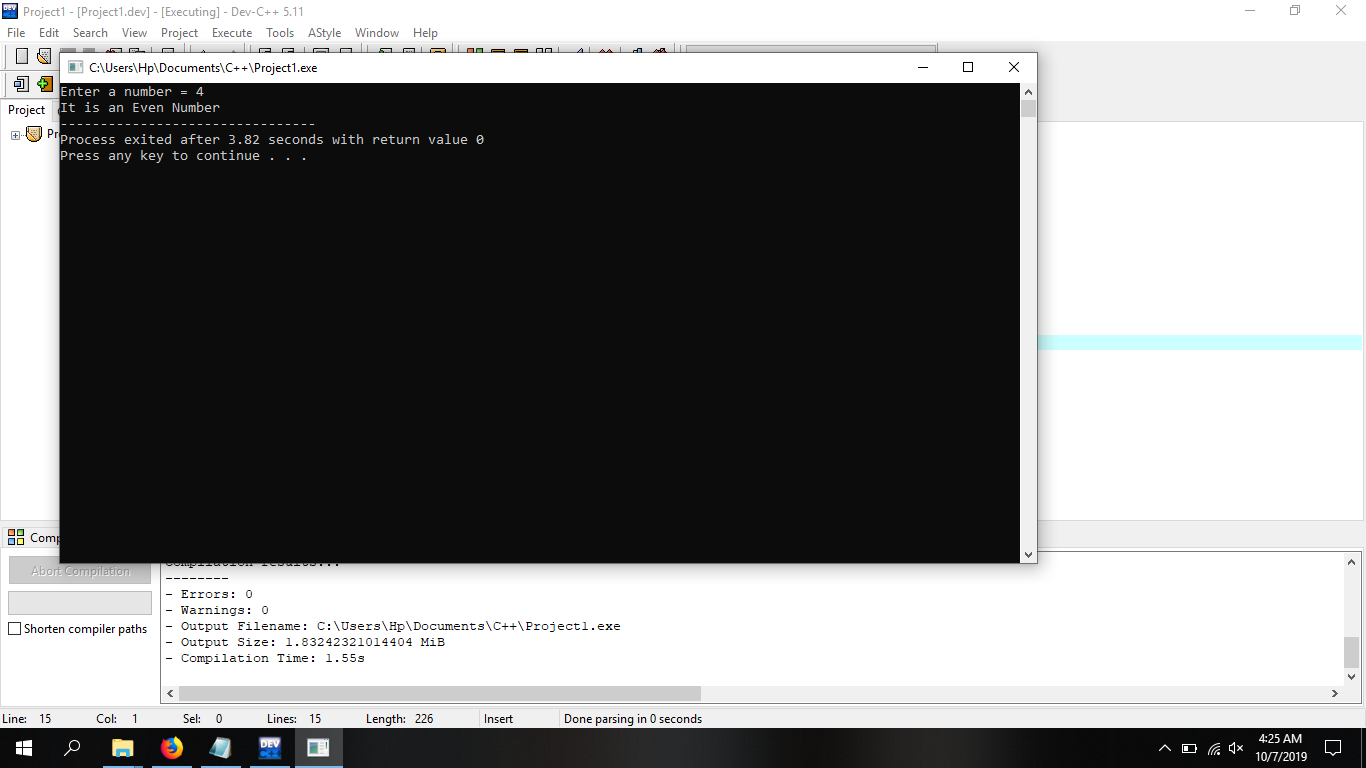
cout<<"It is an Even Number";

if(n%2!=0)

cout<<"It is an Odd Number";

}





Assignment # 16:

Take factorial of the given number.

PROGRAM:

#include <iostream>

using namespace std;

int main() {

int i,n;

int f=1;

cout<<"Enter the number whose factorial is to be tken out = ";

cin>>n;

for(i=1;i<=n;i++)

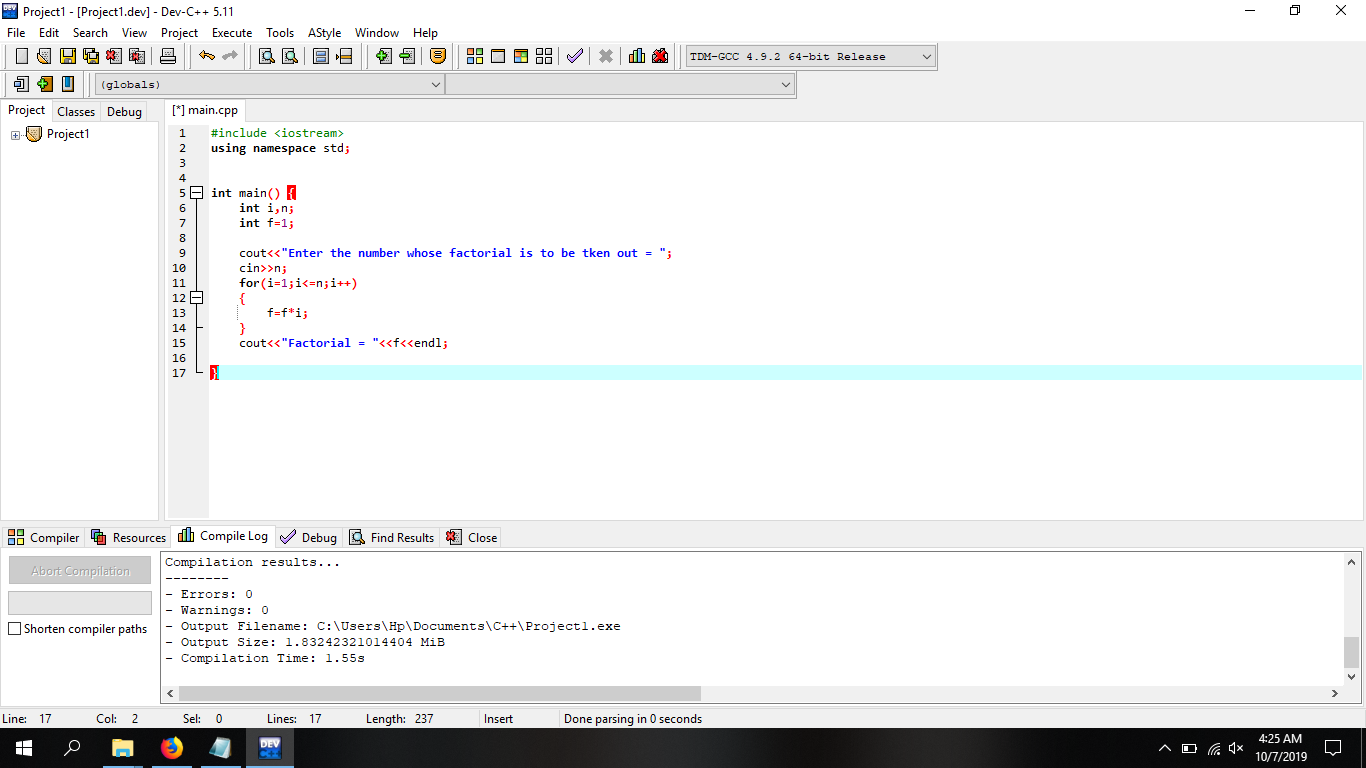
{

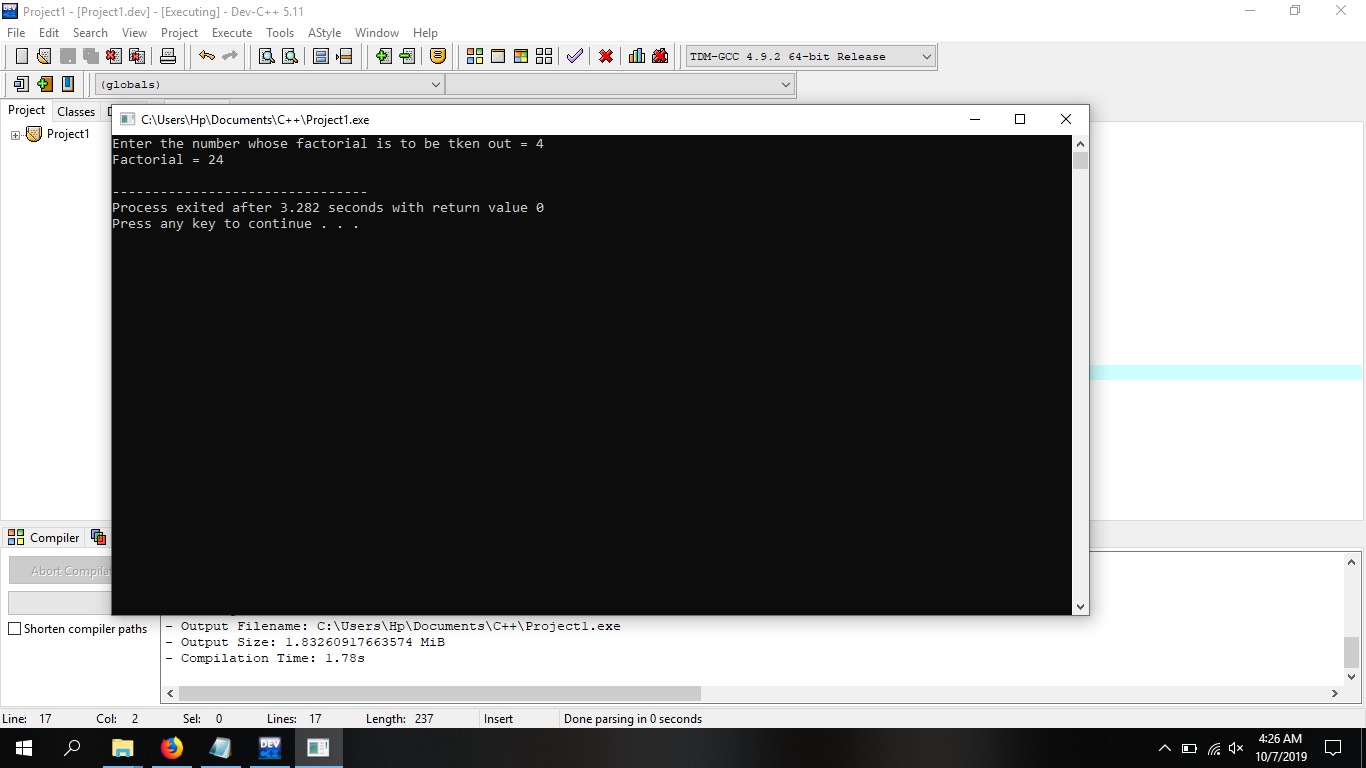
f=f\*i;

}

cout<<"Factorial = "<<f<<endl;

}





Assignment # 17:

Write a program to enter ASCII code of given letter.

PROGRAM:

#include <iostream>

using namespace std;

int main() {

char n;

cout<<"Enter a number for ASCII code = ";

cin>>n;

cout<<"ASCII of "<< n <<" is "<<int(n);

}

