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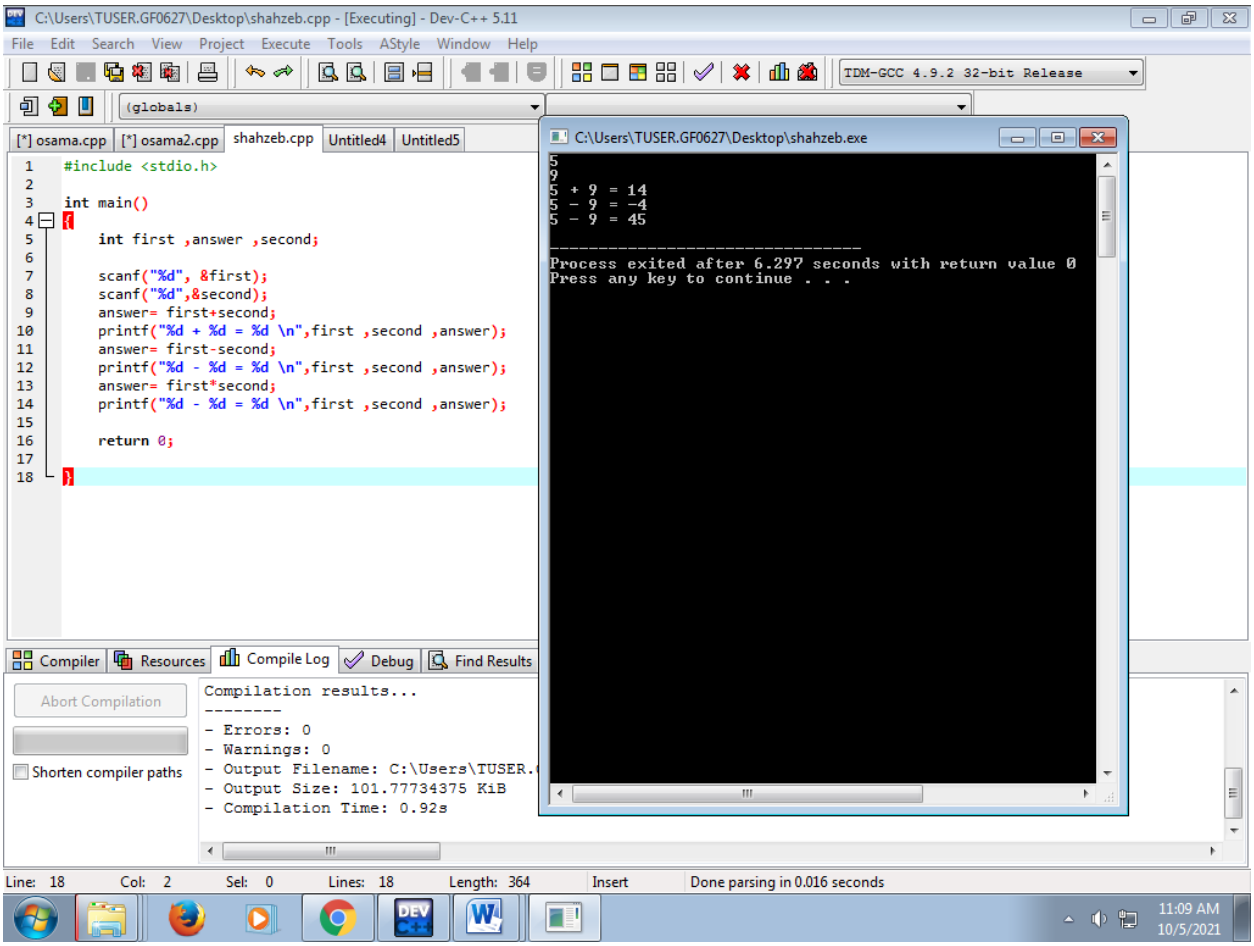
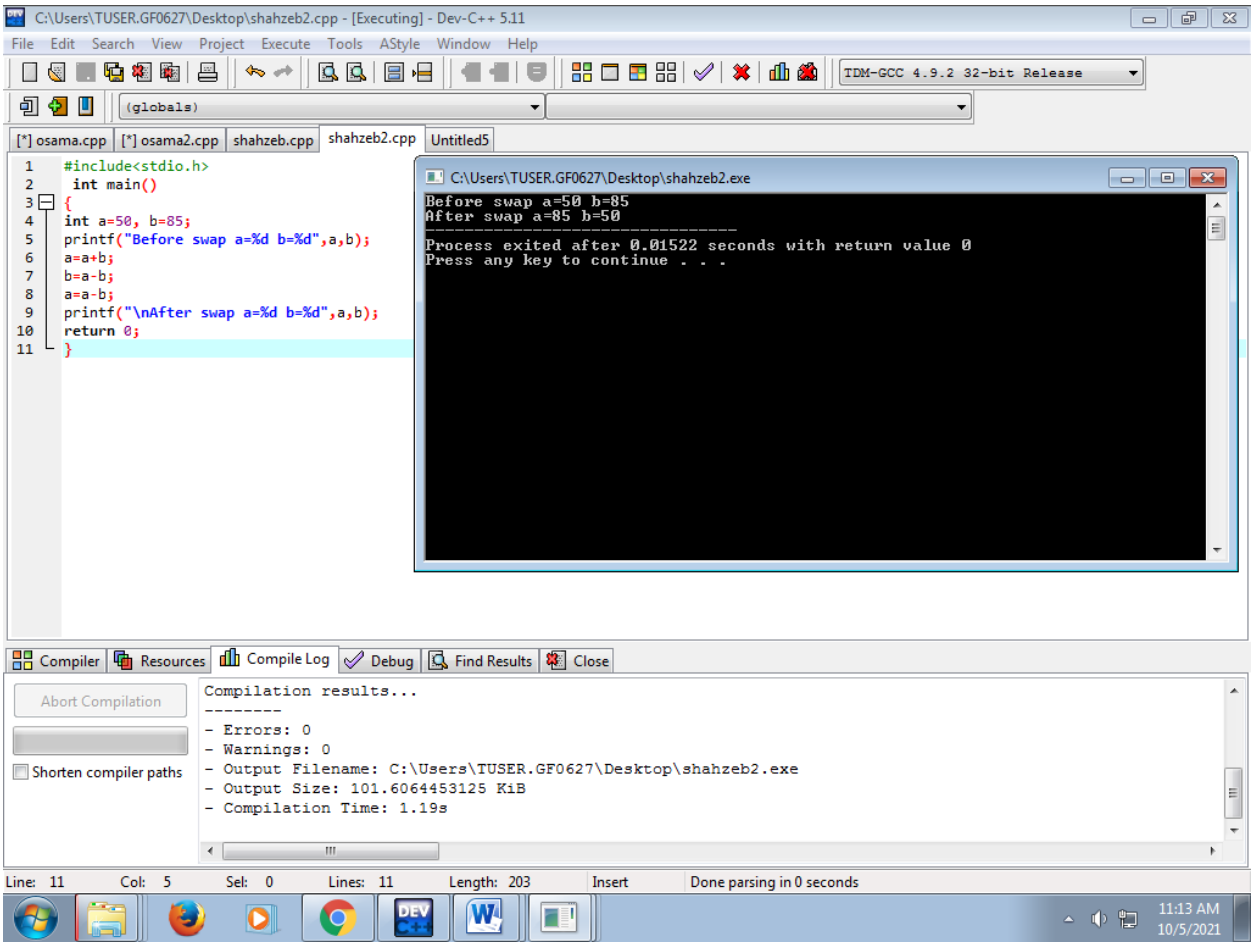
Q1

```
#include <stdio.h>
int main()
{
        int first ,answer ,second;

   scanf("%d", &first);
        scanf("%d",&second);
        answer= first+second;
        printf("%d + %d = %d \n",first ,second ,answer);
        answer= first-second;
        printf("%d - %d = %d \n",first ,second ,answer);
        answer= first*second;
        printf("%d - %d = %d \n",first ,second ,answer);

        return 0;}
```



Q2

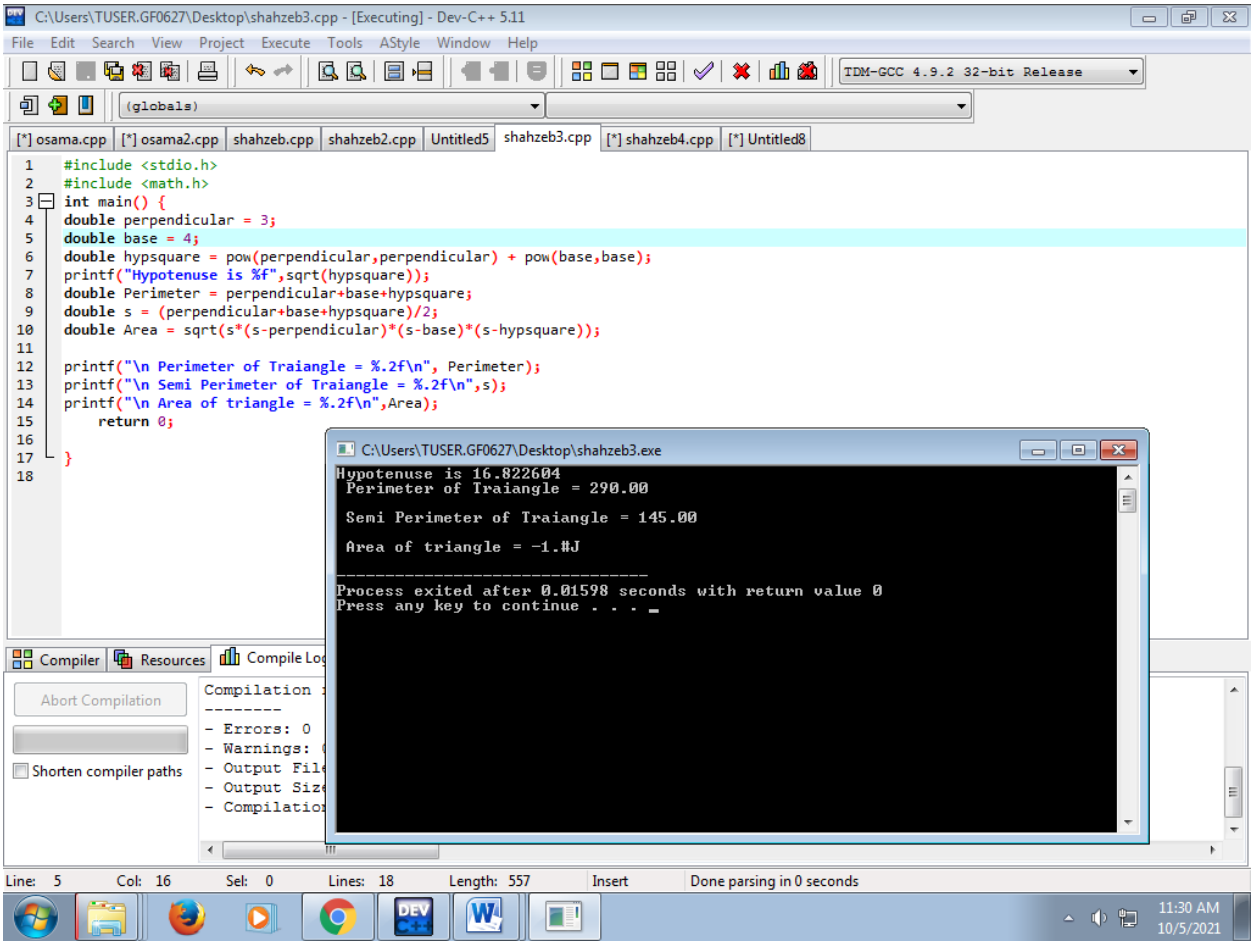
```
#include<stdio.h>
 int main()
{
int a=50, b=85;
printf("Before swap a=%d b=%d",a,b);
a=a+b;
b=a-b;
a=a-b;
printf("\nAfter swap a=%d b=%d",a,b);
return 0;
}
```



Q3

```
#include <stdio.h>
#include <math.h>
```

```
int main() {
double perpendicular = 3;
double base = 4;
double hypsquare = pow(perpendicular,perpendicular) + pow(base,base);
printf("Hypotenuse is %f",sqrt(hypsquare));
double Perimeter = perpendicular+base+hypsquare;
double s = (perpendicular+base+hypsquare)/2;
double Area = sqrt(s*(s-perpendicular)*(s-base)*(s-hypsquare));

printf("\n Perimeter of Traiangle = %.2f\n", Perimeter);
printf("\n Semi Perimeter of Traiangle = %.2f\n",s);
printf("\n Area of triangle = %.2f\n",Area);
        return 0;

}
```

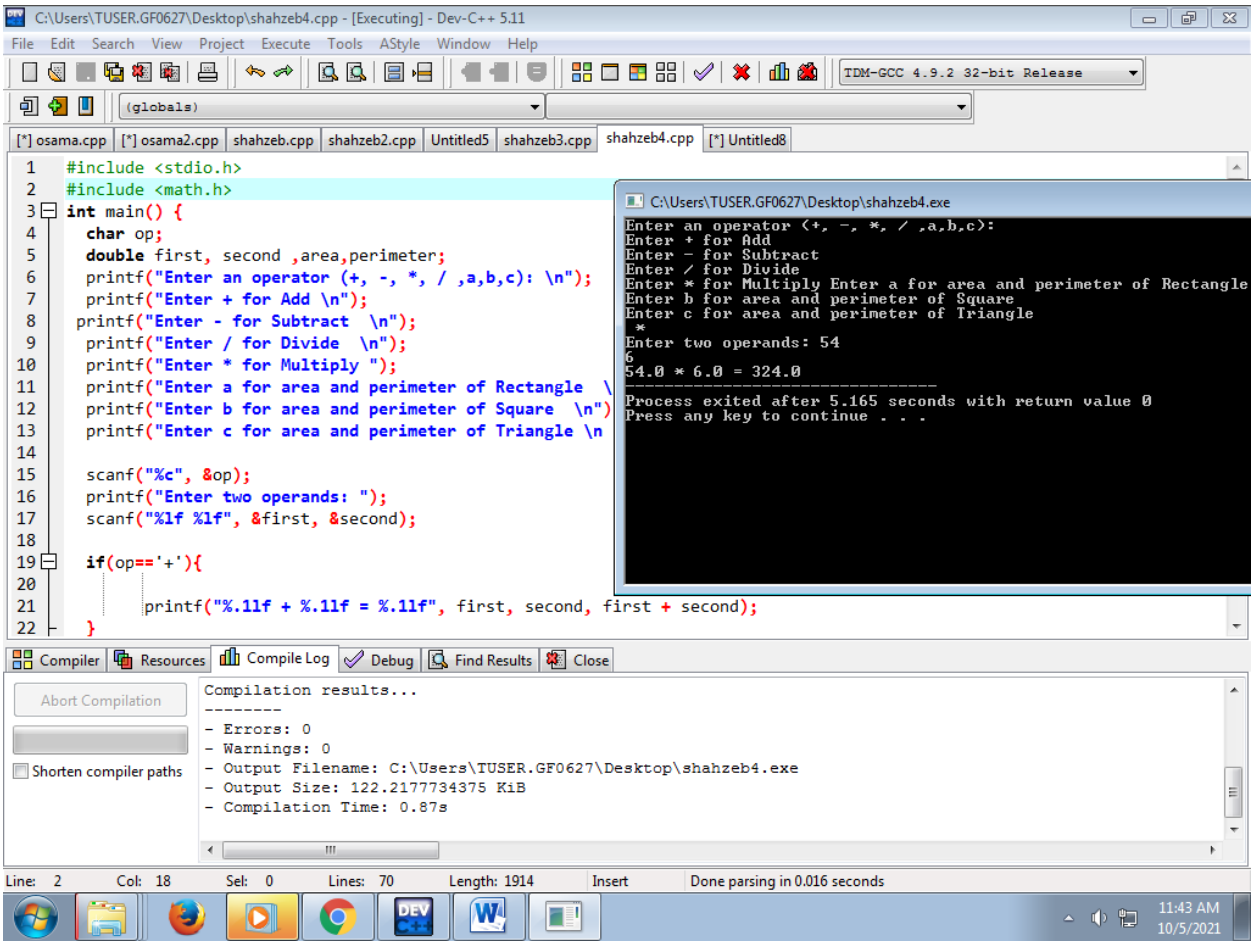


Q4

```
#include <stdio.h>
#include <math.h>
```

```
int main() {
  char op;
  double first, second ,area,perimeter;
  printf("Enter an operator (+, -, *, / ,a,b,c): \n");
  printf("Enter + for Add \n");
 printf("Enter - for Subtract  \n");
  printf("Enter / for Divide  \n");
  printf("Enter * for Multiply ");
  printf("Enter a for area and perimeter of Rectangle  \n");
  printf("Enter b for area and perimeter of Square  \n");
  printf("Enter c for area and perimeter of Triangle \n ");

  scanf("%c", &op);
  printf("Enter two operands: ");
  scanf("%lf %lf", &first, &second);

  if(op=='+'){

                printf("%.1lf + %.1lf = %.1lf", first, second, first + second);
  }

  else if(op=='-'){

                printf("%.1lf - %.1lf = %.1lf", first, second, first - second);
  }
  else if(op=='*'){

                printf("%.1lf * %.1lf = %.1lf", first, second, first * second);
  }
  else if(op=='/'){

                printf("%.1lf / %.1lf = %.1lf", first, second, first / second);
  }
  else if (op == 'a'){


    area = first * second;
    printf("Area of Rectangle : %0.4f\n", area);
    perimeter = 2*(first + second);
             printf("Perimeter of Rectangle : %0.4f\n", perimeter);
  }
   else if (op == 'b'){


    area = first * second;
    printf("Area of square : %0.4f\n", area);
```

```
}
else if (op == 'c'){
        double perpendicular = first;
        double base =second;
        double hypsquare = pow(perpendicular,perpendicular) + pow(base,base);
        printf("Hypotenuse is %f",sqrt(hypsquare));
        double Perimeter = perpendicular+base+hypsquare;
        double s = (perpendicular+base+hypsquare)/2;
        double Area = sqrt(s*(s-perpendicular)*(s-base)*(s-hypsquare));

        printf("\n Perimeter of Traiangle = %.2f\n", Perimeter);
        printf("\n Semi Perimeter of Traiangle = %.2f\n",s);
        printf("\n Area of triangle = %.2f\n",Area);
}
        else{
                printf("error");

        }


}
```


C:\Users\TUSER.GF0627\Desktop\shahzeb4.cpp - [Executing] - Dev-C++ 5.11
File Edit Search View Project Execute Tools AStyle Window Help
TDM-GCC 4.9.2 32-bit Release
(globals)
[*] osama.cpp
[*] osama2.cpp
shahzeb.cpp
shahzeb2.cpp
Untitled5
shahzeb3.cpp
shahzeb4.cpp
[*] Untitled8
#include <stdio.h>
#include <math.h>
int main() {
char op;
double first, second ,area,perimeter;
printf("Enter an operator (+, -, *, / ,a,b,c): \n");
printf("Enter + for Add \n");
printf("Enter - for Subtract \n");
printf("Enter / for Divide \n");
printf("Enter * for Multiply ");
printf("Enter a for area and perimeter of Rectangle \
printf("Enter b for area and perimeter of Square \n")
printf("Enter c for area and perimeter of Triangle \n
scanf("%c", &op);
printf("Enter two operands: ");
scanf("%lf %lf", &first, &second);
if(op=='+'){
printf("%.1lf + %.1lf = %.1lf", first, second, first + second);
}
C:\Users\TUSER.GF0627\Desktop\shahzeb4.exe
Enter an operator (+, -, *, / ,a,b,c):
Enter + for Add
Enter - for Subtract
Enter / for Divide
Enter * for Multiply Enter a for area and perimeter of Rectangle
Enter b for area and perimeter of Square
Enter c for area and perimeter of Triangle
*
Enter two operands: 54
6
54.0 * 6.0 = 324.0
Process exited after 5.165 seconds with return value 0
Press any key to continue . . .
Compiler
Resources
Compile Log
Debug
Find Results
Close
Abort Compilation
Shorten compiler paths
Compilation results...
- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\TUSER.GF0627\Desktop\shahzeb4.exe
- Output Size: 122.2177734375 KiB
- Compilation Time: 0.87s
Line: 2 Col: 18 Sel: 0 Lines: 70 Length: 1914 Insert Done parsing in 0.016 seconds
11:43 AM
10/5/2021