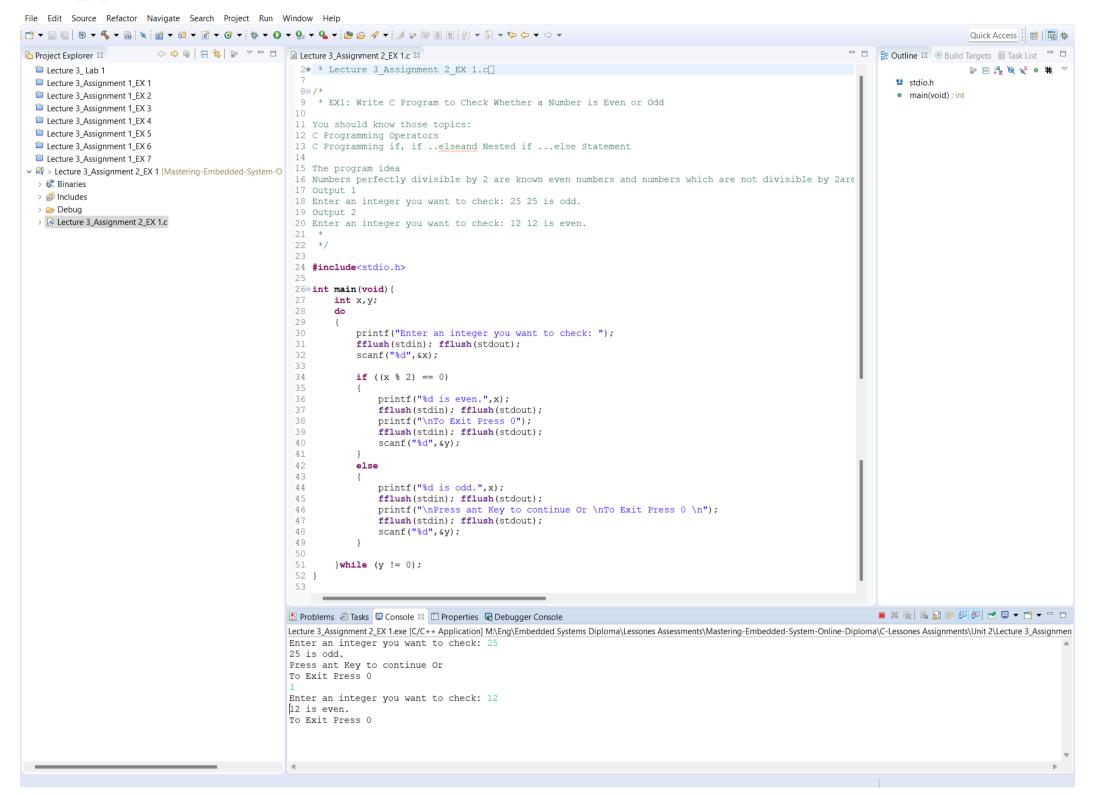
Assignments 2



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                                                                                                                                                            🖆 🗏 ↓ªz 💘 🎺 • 💥
                               2 * Lecture 3_Assignment 2_EX 2.c
  Lecture 3_ Lab 1
  Lecture 3_Assignment 1_EX 1
                                                                                                                                                              stdio.h
                              4 * Created on: 28 Jul 2022
  Lecture 3_Assignment 1_EX 2
                                                                                                                                                              main(void): int
                                      Author: Muhammad Osama
 Lecture 3_Assignment 1_EX 3
                              6 */
 Lecture 3_Assignment 1_EX 4
  Lecture 3_Assignment 1_EX 5
  Lecture 3_Assignment 1_EX 6
                             10 * EX2: C Program to Check Vowel or Consonant
  Lecture 3_Assignment 1_EX 7
  Lecture 3_Assignment 2_EX 1
                              12 Alphabets a, e, i, o and u are known as vowels and all alphabets except these characters are
 > Lecture 3_Assignment 2_EX 2 [Masterir
                              13 known as consonants. This program asks user to enter a character
  > 🗱 Binaries
                              14 and checks whether that character is vowel or not.
  ) includes
  > 🗁 Debug
                              16 Output 1
  > 🖟 Lecture 3_Assignment 2_EX 2.c
                              17 Enter an alphabet: i i is a vowel.
                              20 Enter an alphabet: G G is a consonant
                              21 *
                              22 */
                              24 #include<stdio.h>
                             25@int main(void) {
                                    char x,y;
                                    do
                                        printf("Enter an alphabet: ");
                                        fflush(stdin); fflush(stdout);
                                        scanf("%c",&x);
                                        if (x == 'i' || x == 'a' || x == 'e' || x == 'o' || x == 'u' || x == 'I' || x == 'A' || x == 'E' || x == 'O' || x == 'U' )
                                           printf("%c is a vowel.",x);
                                           fflush(stdin); fflush(stdout);
printf("\nDo you want to input another alphabet? \n");
fflush(stdin); fflush(stdout);
                                           scanf("%c",&y);
                                        else
                                           printf("%c is a consonant.",x);
                                           fflush(stdin); fflush(stdout);
                                           printf("\nDo you want to input another alphabet? \n");
                                           fflush(stdin); fflush(stdout);
                                           scanf("%c",&y);
                                    }while (y == 'y' || y == 'Y');
                                                                                                                                            Enter an alphabet: i
                             i is a vowel.
                             Do you want to input another alphabet?
                             Enter an alphabet: G
                             G is a consonant.
                             Do you want to input another alphabet?
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                                                                                                                                                  Updates are available for your software.
                                                                                                                                                   Click to review and install updates.
                                                                                                                                                  Set up Reminder options
Lecture 3_Assignment 2_EX 1
                                                                                                                                         6
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fflush(stdin); fflush(stdout); scanf("%c",&f); else printf("Largest number= %.2f",z); fflush(stdin); fflush(stdout);
printf("\nIf you want to continue Press C \nOr any key to Exit\n");
fflush(stdin); fflush(stdout); scanf("%c",&f); } else if (y > z)printf("Largest number= %.2f",y); fflush(stdin); fflush(stdout); printf("\nIf you want to continue Press C\nOr any key to Exit\n");
fflush(stdin); fflush(stdout); scanf("%c",&f); printf("Largest number= %.2f",z); fflush(stdin); fflush(stdout); $printf("\n f you want to continue Press C\n any key to Exit\n");$ fflush(stdin); fflush(stdout); scanf("%c",&f); }while (f == 'c' || f == 'C'); <terminated> (exit value: 0) Lecture 3_Assignment 2_EX 3.exe [C/C++ Application] M:\Eng\Embedded Systems Diploma\Lessones Assessments\Mastering-Embedded-System-Online-Diploma\C-Lessones Assignments\Unit 2\Lecture 3_Assignments\Unit 2\Lecture 3_Assignments\Unit 2\Lecture 3_Assignments\Unit 3\Lecture 3_Assignments\Unit 3\Lecture 3_Assignments\Unit 3\Lecture 3_Assignment 3_Assignmen Enter three numbers: 12.2 13.452 10.193 Largest number= 13.45 If you want to continue Press C Or any key to Exit **Updates Available** Updates are available for your software. Click to review and install updates. Set up Reminder options Writable Smart Insert 63:76

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• ▼ 2. * Lecture 3_Assignment 2_EX 4.c.

                                                                                                                                                                                                                                                                                                                                                              Lecture 3_ Lab 1
    Lecture 3_Assignment 1_EX 1
                                                                                                                                                                                                                                                                                                                                                                 stdio.h
                                                                   9 * EX4: C Program to Check Whether a Number is Positive or Negative
    Lecture 3_Assignment 1_EX 2
                                                                                                                                                                                                                                                                                                                                                                 main(void): int
                                                                  10
    Lecture 3_Assignment 1_EX 3
                                                                  11 This program takes a number from user and checks whether that number is either positive or negative or zero.
    Lecture 3_Assignment 1_EX 4
    Lecture 3_Assignment 1_EX 5
                                                                  13 Output 1
    Lecture 3_Assignment 1_EX 6
    Lecture 3_Assignment 1_EX 7
                                                                 15 Enter a number: 12.3
                                                                16 12.30 is positive.
    Lecture 3_Assignment 2_EX 1
    Lecture 3_Assignment 2_EX 2
                                                                  18 Output 2
    Lecture 3_Assignment 2_EX 3
 v 😂 > Lecture 3_Assignment 2_EX 4 [Masterir 20 Enter a number: 0 You entered zero.
    > 🐉 Binaries
                                                                  21 *
    > 🛍 Includes
     > 🗁 Debug
                                                                  24 #include<stdio.h>
     > Lecture 3_Assignment 2_EX 4.c
                                                                 25@int main(void) {
                                                                                 float x; int y;
                                                                                 do
                                                                                         printf("Enter a number: ");
fflush(stdin); fflush(stdout);
                                                                                         scanf("%f",&x);
                                                                                         if (x < 0)
                                                                                                 printf("%.2f is negative.",x);
                                                                                                fflush(stdin); fflush(stdout);
printf("\nPress 1 to continue\n");
                                                                                                 fflush(stdin); fflush(stdout);
                                                                                                scanf("%d",&y);
                                                                                         else if (x > 0)
                                                                                                 printf("%.2f is positive.",x);
fflush(stdin); fflush(stdout);
                                                                                                 printf("\nPress 1 to continue\n");
                                                                                                 fflush(stdin); fflush(stdout);
                                                                                                 scanf("%d", &y);
                                                                                     else
                                                                                                 printf("%.0f You entered zero.",x);
                                                                                                fflush(stdin); fflush(stdout);
printf("\nPress 1 to continue\n");
fflush(stdin); fflush(stdout);
                                                                                                 scanf("%d",&y);
                                                                                 }while (y == 1);
                                                                                                                                                                                                                                                                                                                          <terminated> (exit value: 0) Lecture 3_Assignment 2_EX 4.exe [C/C++ Application] M:\Eng\Embedded Systems Diploma\Lessones Assessments\Mastering-Embedded-System-Online-Diploma\C-Lessones Assignments\Unit 2\Lecture 3_Assignments\Unit 2\Lecture 3_Assignments\Unit 2\Lecture 3_Assignments\Unit 2\Lecture 3_Assignments\Unit 2\Lecture 3_Assignments\Unit 2\Lecture 3_Assignments\Unit 3\Lecture 3_Assignment 3_Assignments\Unit 3\Lecture 3_Assignment 3_Assi
                                                                 Enter a number: 12.3
                                                                12.30 is positive.
Press 1 to continue
                                                                 Enter a number: 0
                                                                 0 You entered zero.
                                                                 Press 1 to continue
                                                                 Enter a number: -12.3
                                                                 -12.30 is negative.
                                                                 Press 1 to continue
/Lecture 3_Assignment 2_EX 4/Lecture 3_Assignment 2_EX 4.c
```

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                                                                        10/*
2 * Lecture 3_Assignment 2_EX 5.c
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                                                                                                                                                                                                                                                                                                                                                                                                 🖆 🗎 🔭 💆 🎉 🄞 🗯
    Lecture 3_ Lab 1
    Lecture 3_Assignment 1_EX 1
                                                                                                                                                                                                                                                                                                                                                                                                      stdio.h
                                                                          4 * Created on: 28 Jul 2022
5 * Author: Muhammad Osama
    Lecture 3_Assignment 1_EX 2
                                                                                                                                                                                                                                                                                                                                                                                                     main(void): int
    Lecture 3_Assignment 1_EX 3
    Lecture 3_Assignment 1_EX 4
    Lecture 3_Assignment 1_EX 5
                                                                          9 *EX5: C Program to Check Whether a Character is an Alphabet or not
    Lecture 3_Assignment 1_EX 6
    Lecture 3_Assignment 1_EX 7
                                                                         11 This program takes a character from user and checks whether that character is an alphabet or not.
    Lecture 3_Assignment 2_EX 1
    Lecture 3_Assignment 2_EX 2
    Lecture 3_Assignment 2_EX 3
                                                                         14 Output 1
15
    Lecture 3_Assignment 2_EX 4
                                                                         16 Enter a character: *

√ ♣ > Lecture 3_Assignment 2_EX 5 [Masterir]

                                                                         17 * is not an alphabet Output 2
18 Enter a character: K K is an alphabet
     > 🗱 Binaries
      > 🞒 Includes
      > 🗁 Debug
                                                                         20 */
      > 🕞 Lecture 3_Assignment 2_EX 5.c
                                                                         22 #include<stdio.h>
                                                                        240 int main(void) {
                                                                                         char x, y;
                                                                                          do
                                                                                                 printf("Enter a character: ");
                                                                                                  fflush(stdin); fflush(stdout);
                                                                                                  scanf("%c",&x);
                                                                                                  if ((64 < x && x < 91)|| (95 < x && x < 123))
                                                                                                          printf("%c is an alphabet",x);
fflush(stdin); fflush(stdout);
                                                                                                          printf("\nTo continue press C\n");
fflush(stdin); fflush(stdout);
                                                                                                           scanf("%c",&y);
                                                                                                  else
                                                                                                          printf("%c is not an alphabet",x);
fflush(stdin); fflush(stdout);
printf("\nTo continue press C\n");
                                                                                                          fflush(stdin); fflush(stdout);
scanf("%c",&y);
                                                                                         }while (y == 'C' || y == 'c');

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                                                                       Enter a character: *
                                                                       To continue press C
                                                                       Enter a character: K
                                                                       K is an alphabet
                                                                       To continue press C
(Lecture 3_Assignment 2_EX 5/Lecture 3_Assignment 2_EX 5.c
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     Lecture 3_ Lab 1
                                                                                  8⊖/*
     Lecture 3_Assignment 1_EX 1
                                                                                                                                                                                                                                                                                                                                                                                                                                            stdio.h
     Lecture 3_Assignment 1_EX 2
                                                                                                                                                                                                                                                                                                                                                                                                                                             main(void): int
                                                                                10 EX6: C Program to Calculate Sum of Natural Numbers
     Lecture 3_Assignment 1_EX 3
                                                                              11
12 Positive integers 1, 2, 3, 4... are known as natural numbers. This program takes a positive integer
13 from user( suppose user entered n) then, this program displays the value of 1+2+3+...n.
     Lecture 3_Assignment 1_EX 4
     Lecture 3_Assignment 1_EX 5
     Lecture 3_Assignment 1_EX 6
                                                                                 15 Output
     Lecture 3_Assignment 1_EX 7
                                                                                16
17 Enter an integer: 100 Sum= 5050
     Lecture 3_Assignment 2_EX 1
     Lecture 3_Assignment 2_EX 2
                                                                                18 *
19 */
     Lecture 3_Assignment 2_EX 3
     Lecture 3_Assignment 2_EX 4
 > 🐰 Binaries
                                                                                                 int x,y,z,sum;
     > 🛍 Includes
                                                                                25
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39
      > 🗁 Debug
      > R Lecture 3_Assignment 2_EX 6.c
                                                                                                           printf("Enter an integer: ");
fflush(stdin); fflush(stdout);
                                                                                                            scanf("%d",&z);
                                                                                                            sum = 0;
                                                                                                            for (x = 1;x <= z;x++ )
                                                                                                                    sum = sum + x;
                                                                                                            printf("Sum = %d\n", sum);
                                                                                                           fflush(stdin); fflush(stdout);
printf("To continue Press 0\nor Press any key to Exit");
fflush(stdin); fflush(stdout);
                                                                                                            scanf("%d",&y);
                                                                                41 42 }
                                                                                                  }while (y == 0);
                                                                                 42
                                                                              Problems  a Tasks  Console  □ Properties  Debugger Console
                                                                                                                                                                                                                                                                                                                                                                                           <terminated> (exit value: 0) Lecture 3_Assignment 2_EX 6.exe [C/C++ Application] M:\Eng\Embedded Systems Diploma\Lessones Assessments\Mastering-Embedded-System-Online-Diploma\C-Lessones Assignments\Unit 2\Lecture 3_Assign
Enter an integer: 100
Sum = 5050
                                                                              To continue Press 0
                                                                               Or Press any key to Exit0
                                                                             Enter an integer: 20
Sum = 210
                                                                              To continue Press 0
Or Press any key to Exit1
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     Lecture 3_ Lab 1
                                                                                                   2⊕ * Lecture 3_Assignment 2_EX 7.c[

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      Lecture 3_Assignment 1_EX 1
                                                                                                   8⊖/*
     Lecture 3_Assignment 1_EX 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      stdio.h
     Lecture 3_Assignment 1_EX 3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      • main(void) : int
                                                                                                 10 EX7: C Program to Find Factorial of a Number
     Lecture 3_Assignment 1_EX 4
                                                                                                 11
12 For any positive number n, its factorial is given by: factorial= 1*2*3*4....n
      Lecture 3_Assignment 1_EX 5
     Lecture 3_Assignment 1_EX 6
                                                                                                 13 If a number is negative, factorial does not exist and factorial of O is 1.
     Lecture 3_Assignment 1_EX 7
                                                                                                  15 This program takes an integer from a user. If user enters negative integer, this program will
      Lecture 3_Assignment 2_EX 1
                                                                                                 16 display error message and if user enters non-negative integer, this program will display the 17 factorial of that number.
      Lecture 3_Assignment 2_EX 2
      Lecture 3_Assignment 2_EX 3
                                                                                                  18
      Lecture 3_Assignment 2_EX 4
      Lecture 3_Assignment 2_EX 5
                                                                                                 20 Output 1
      Lecture 3_Assignment 2_EX 6
                                                                                                 22 Enter an integer: -5
23 Error!!! Factorial of negative number doesn't exist.

√ E

→ Lecture 3_Assignment 2_EX 7 [Masterir]

| Masterical Continuous Property | Masterical C
      > 🐰 Binaries
      > 🛍 Includes
                                                                                                  25 Output 2
       > 🗁 Debug
                                                                                                 26 27 Enter an integer: 10 28 Factorial= 3628800
        > 🖟 Lecture 3_Assignment 2_EX 7.c
                                                                                                 29 *
30 */
                                                                                                 31
32 #include<stdio.h>
                                                                                                 34@int main(void) {
                                                                                                                        int x,y,z; long long int multi;
                                                                                                                       do
                                                                                                                                  printf("Enter an integer: ");
fflush(stdin); fflush(stdout);
                                                                                                                                  scanf("%d",&z);
multi = 1;
                                                                                                                                  if (z >= 0)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       stdio.h
                                                                                                                                               for (x = 1; x <= z; x++)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      • main(void) : int
                                                                                                                                                         multi *= x;
                                                                                                                                              printf("Factorial= %lli", multi);
                                                                                                                                                fflush(stdin); fflush(stdout);
                                                                                                                                              printf("\nTo continue press 0\nOr any key to Exit\n");
fflush(stdin); fflush(stdout);
                                                                                                                                               scanf("%d", &y);
                                                                                                                                               printf("Error!!! Factorial of negative number doesn't exist.");
                                                                                                                                              fflush(stdin); fflush(stdout);
printf("\nTo continue press 0\nOr any key to Exit\n");
                                                                                                                                                fflush(stdin); fflush(stdout);
                                                                                                                                              scanf("%d", &y);
                                                                                                                       }while (y == 0);
                                                                                               🖺 Problems 🚇 Tasks 📮 Console 🖾 🔲 Properties 🖼 Debugger Console
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Lecture 3_Assignment 2_EX 7.exe [C/C++ Application] M:\Eng\Embedded Systems Diploma\Lessones Assessments\Mastering-Embedded-System-Online-Diploma\C-Lessones Assignments\Unit 2\Lecture 3_Assignment 2_EX 7\Debug\Lecture
                                                                                               Enter an integer: 10
Factorial= 3628800
                                                                                              To continue press 0
Or any key to Exit
                                                                                               Enter an integer: 20
                                                                                               Factorial= 2432902008176640000
                                                                                               To continue press 0
                                                                                               Or any key to Exit
                                                                                               Enter an integer: -1
                                                                                               Error!!! Factorial of negative number doesn't exist. To continue press \boldsymbol{0}
                                                                                               Or any key to Exit
// /Lecture 3_Assignment 2_EX 7/Lecture 3_Assignment 2_EX 7.c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  8
```

Ex 8

```
File Edit Source Refactor Navigate Search Project Run Window Help
Quick Access 🔡 🖺 🍇
                                                                                                                                                                                                                                                                                                                 - □ BO⊠ ®B »1 - □
Project Explorer 🛭 🖹 🦻 💆 🗖 🖟 Lecture 3_Assignment 2_EX 8.c 🖾
   Lecture 3_ Lab 1
                                                             2⊕ * Lecture 3_Assignment 2_EX 8.c.
                                                                                                                                                                                                                                                                                                                            P □ 12 0 % 0 #
   Lecture 3_Assignment 1_EX 1
                                                             80/*
9 * EX8: C Program to Make a Simple Calculator to Add, Subtract, Multiply or Divide Using switch...case
   Lecture 3_Assignment 1_EX 2
                                                                                                                                                                                                                                                                                                                                stdio.h
   Lecture 3_Assignment 1_EX 3
                                                                                                                                                                                                                                                                                                                               main(void): int
   Lecture 3_Assignment 1_EX 4
                                                            11 This program takes an arithmetic operator ( +, -, *, /) and two operands from an user and performs
   Lecture 3_Assignment 1_EX 5
                                                            12 the operation on those two operands depending upon the operator entered by user.
   Lecture 3_Assignment 1_EX 6
                                                            14 Output
   Lecture 3_Assignment 1_EX 7
                                                           15
16 Enter operator either+ or - or* or divide
   Lecture 3_Assignment 2_EX 1
   Lecture 3_Assignment 2_EX 2
                                                            17 Enter two operands: 3.4
18 8.4
   Lecture 3_Assignment 2_EX 3
                                                           19 3.4 - 8.4 = -5.0
20 *
21 */
   Lecture 3_Assignment 2_EX 4
   Lecture 3_Assignment 2_EX 5
   Lecture 3_Assignment 2_EX 6
   Lecture 3_Assignment 2_EX 7
 > 🐰 Binaries
                                                           25@ int main(void) {
    > 🛍 Includes
                                                                         float x,y,answer; char sing,z;
    > 🗁 Debug
    > 🖟 Lecture 3_Assignment 2_EX 8.c
                                                                                printf("Enter operator either + or - or * or / : ");
                                                                                 fflush(stdin); fflush(stdout);
                                                                                scanf("%c",&sing);
printf("\nEnter two operands\nFirst one: ");
                                                                                 fflush(stdin); fflush(stdout);
                                                                                scanf("%f",&x);
printf("Second one: ");
fflush(stdin); fflush(stdout);
                                                                                scanf("%f",&y);
                                                                                if (sing == '+')
                                                                                        answer = x + y;
printf("\n%.1f + %.1f = %.1f",x,y,answer);
fflush(stdin); fflush(stdout);
                                                                                        printf("\n\nTo Continue Press Y : ");
fflush(stdin); fflush(stdout);
                                                                                        scanf("%c",&z);
                                                                                 else if (sing == '-')
                                                                                        answer = x - y;
printf("\n%.1f - %.1f = %.1f",x,y,answer);
                                                                                        fflush(stdin); fflush(stdout);
                                                                                        printf("\n\nTo Continue Press Y : ");
fflush(stdin); fflush(stdout);
                                                                                        scanf("%c",&z);
                                                                                 else if (sing == '*')
                                                                                        answer = x * y;
printf("\n%.1f * %.1f = %.1f",x,y,answer);
fflush(stdin); fflush(stdout);
                                                                                        printf("\n\nTo Continue Press Y : ");
fflush(stdin); fflush(stdout);
                                                                                        scanf("%c",&z);
                                                                                 else if (sing == '/')
                                                                                        answer = x / y;
printf("\n%.1f / %.1f = %.1f",x,y,answer);
fflush(stdin); fflush(stdout);
                                                                                        printf("\n\nTo Continue Press Y : ");
fflush(stdin); fflush(stdout);
                                                                                        scanf("%c",&z);
                                                                                        printf("\nError! The Sing is wrong");
fflush(stdin); fflush(stdout);
                                                                                        printf("\n\nTo Try again Press Y : ");
fflush(stdin); fflush(stdout);
                                                                                        scanf("%c",&z);
                                                                         }while (z == 'y' || z == 'Y');
                                                           86
87
                                                                                                                                                                                                                                                                                           Problems  a Tasks  Console  Properties  Debugger Console  Debugger Console  Debugger Console  Properties  Debugger Console  Debugger  
                                                          Enter two operands
                                                           First one: 3.4
                                                           Second one: 8.4
                                                           3.4 - 8.4 = -5.0
                                                          To Continue Press Y : Y
Enter operator either + or - or * or / : +
                                                           Enter two operands
                                                           First one:
                                                           Second one:
                                                          2.0 + 3.0 = 5.0
                                                          To Continue Press Y : y
Enter operator either + or - or * or / : *
                                                          Enter two operands
                                                           First one: 3
                                                           Second one: 2
                                                           3.0 * 2.0 = 6.0
                                                          To Continue Press Y : y
Enter operator either + or - or * or / : /
                                                           Enter two operands
                                                           First one:
                                                          Second one: 2
                                                          8.0 / 2.0 = 4.0
                                                           To Continue Press Y : q
                                                                                                                                                                                                                                                                                     8
```