ASSIGNMENT - 09

Q1.

```
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        C 1.c > 😯 main()

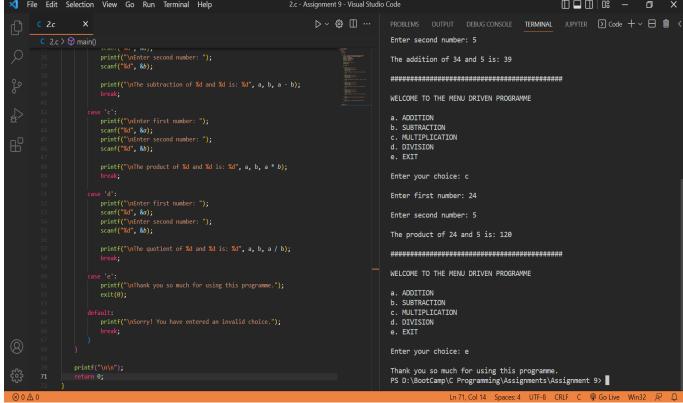
1 #include<stdio.h>
               int main()
                    int month;
printf("\n\nEnter the month number: ");
scanf("%d", &month);
                     switch (month)
                                                  printf("\nNumber of days = %d", 30);
ズ File Edit Selection View Go Run Terminal Help
                                                                            1.c - Assignment 9 - Visual Studio Code
                                                                                                                                                       ▷ ∨ ⇔ □ …
                                                                                                            PROBLEMS OUTPUT TERMINAL ...
                                                                                                                                                            Code + ∨ □ 
★
                                                                                                            Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.
        C 1.c > 分 main()
                                                                                                             Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows
                                                                                                            PS D:\BootCamp\C Programming\Assignments\Assignment 9> cd "d:\BootCamp\C Programming\Assignments\Assignment 9\" ; if (\S?) { gcc 1.c -o 1 } ;
                          case 8 ... 12: switch (month % 2)
                                                                                                             Enter the month number: 6
                                                                                                            Number of days = 30
                                                 printf("\nNumber of days = %d", 31);
                                                                                                             PS D:\BootCamp\C Programming\Assignments\Assignment 9>
                    printf("\n\n");
return 0;
```

Q2.

```
2.c - Assignment 9 - Visual Studio Code
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                                                                                                                 PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL JUPYTER 

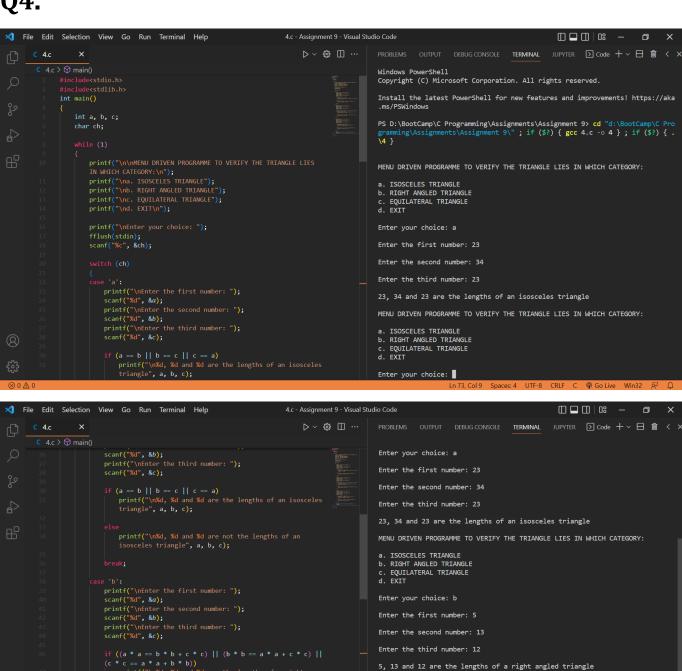
☐ Code + ~ ☐ 
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                                                                                                                 ka.ms/PSWindows
        C 2.c > 分 main()
                                                                                                                 PS D:\BootCamp\C Programming\Assignments\Assignment 9> cd "d:\BootCamp\C P rogramming\Assignments\Assignment 9\" ; if (\$?) { gcc 2.c -o 2 } ; if (\$?)
                                                                                                                  rogramming\A
{ .\2 }
                                                                                                                 WELCOME TO THE MENU DRIVEN PROGRAMME
                      a. ADDITION
b. SUBTRACTION
c. MULTIPLICATION
d. DIVISION
e. EXIT
                                                                                                                 Enter your choice: a
                                                                                                                 Enter first number: 34
                                                                                                                 Enter second number: 5
                     switch ("...
case 'a':
   printf("\nEnter first number: ");
   scanf("%d", &d);
   printf("\nEnter second number: ");
   scanf("%d", &b);
   conf("%d", &d);
                                                                                                                 The addition of 34 and 5 is: 39
                                                                                                                  WELCOME TO THE MENU DRIVEN PROGRAMME
                                                                                                                 a. ADDITION
b. SUBTRACTION
                                                                                                                  c. MULTIPLICATION
d. DIVISION
e. EXIT
                          se 'b':
    printf("\nEnter first number: ");
    scanf("%d", &a);
    printf("\nEnter second number: ");
    scanf("%d", &b);
                                                                                                                 Enter your choice:
                                                                                                                                                                    🔀 File Edit Selection View Go Run Terminal Help
                                                                                   2.c - Assignment 9 - Visual Studio Code
                                                                                          ▷ ∨ ∰ Ш …
                                                                                                                 PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL JUPYTER 

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       C 2.c
                    X
        C 2.c > 分 main()
                                                                                                                 Enter second number: 5
```



Q3.

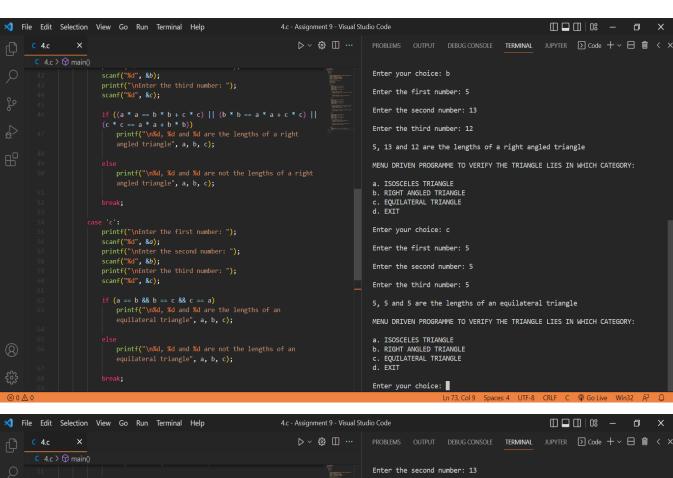
```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL JUPYTER ∑ Code + ∨ ⊟ ® <
                                                                                  ▷ ∨ ∰ Ⅲ …
                                                                                                        Windows PowerShell
                                                                                                       Copyright (C) Microsoft Corporation. All rights reserved.
                                                                                                       Install the latest PowerShell for new features and improvements! https://a ka.ms/PSWindows
               int main()
                                                                                                       PS D:\BootCamp\C Programming\Assignments\Assignment 9> cd "d:\BootCamp\C Programming\Assignments\Assignment 9\" ; if ($\frac{2}{3} } ; if ($\frac{2}{3} }) ; if ($\frac{2}{3} })
                  int num;
printf("\nEnter a day number of a week: ");
scanf("%d", &num);
                                                                                                       Enter a day number of a week: 5
                   switch (num)
                                                                                                       Hello dear, today is Friday.
                                                                                                       PS D:\BootCamp\C Programming\Assignments\Assignment 9>
📢 File Edit Selection View Go Run Terminal Help
                                                                            • 3.c - Assignment 9 - Visual Studio Code
                                                                                                                                                       ▷ ∨ ∰ Ш …
                                                                                                       C 3.c > 分 main()
                                                                                                        Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.
                                                                                                        Install the latest PowerShell for new features and improvements! https://a
                       case 3:
                                                                                                        PS D:\BootCamp\C Programming\Assignments\Assignment 9> cd "d:\BootCamp\C Programming\Assignments\Assignment 9\" ; if ($?) { gcc 3.c -0 3 } ; if ($?) { .\3 }
                                                                                                        Enter a day number of a week: 5
                                                                                                        Hello dear, today is Friday.
                       case 5:
                                                                                                        PS D:\BootCamp\C Programming\Assignments\Assignment 9> \[]
                   return 0;
```

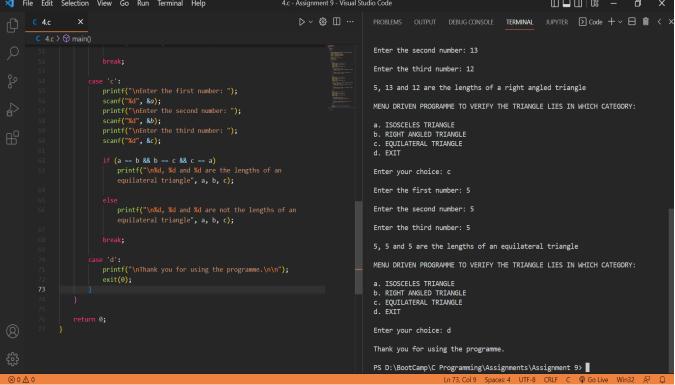


MENU DRIVEN PROGRAMME TO VERIFY THE TRIANGLE LIES IN WHICH CATEGORY:

a. ISOSCELES TRIANGLE b. RIGHT ANGLED TRIANGLE c. EQUILATERAL TRIANGLE d. EXIT

Enter your choice:





Q5.

Q6.

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                                                                                                                                 Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.
                                                                                                                                 Install the latest PowerShell for new features and improvements! 
  \verb|https://aka.ms/PSWindows| 
                      int year;
printf("\nEnter a year: ");
scanf("%d", &year);
                                                                                                                                 PS D:\BootCamp\C Programming\Assignments\Assignment 9> cd "d:\BootCamp\C Programming\Assignments\Assignment 9\" ; if ($?) { gcc 6.c -o 6 } ; if ($?) { .\6 }
                        switch (year % 100 == 0)
                                                                                                                                 Enter a year: 2001
                                                                                                                                 2001 is not a leap year
                                                                                                                                 PS D:\BootCamp\C Programming\Assignments\Assignment 9> cd "d:\BootCamp\C Programming\Assignments\Assignment 9\" ; if ($?) { gcc 6.c -o 6 } ; if ($?) { .\6 }
                                                                                                                                 Enter a year: 205
                                                                                                                                 PS D:\BootCamp\C Programming\Assignments\Assignment 9> cd "d:\BootCamp\C Programming\Assignments\Assignment 9\" ; if ($?) { gcc 6.c -o 6 } ; if ($?) { .
                                                                                                                                 Enter a year: 2016
                                                                                                                                 2016 is a leap year
                                                                                                                                 PS D:\BootCamp\C Programming\Assignments\Assignment 9>
```

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刘 File Edit Selection View Go Run Terminal Help
                                                                                            7.c - Assignment 9 - Visual Studio Code
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         7.c > 分 main()
                                                                                                                          Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.
                 int main()
                                                                                                                          Install the latest PowerShell for new features and improvements! https://aka
                                                                                                                           .ms/PSWindows
                    float units, amount = 0, total = 0;
printf("\nEnter the units of electricity: ");
scanf("%f", &units);
                                                                                                                          PS D:\BootCamp\C Programming\Assignments\Assignment 9> cd "d:\BootCamp\C Programming\Assignments\Assignment 9\" ; if ($?) { gcc 7.c -o 7 } ; if ($?) { .\7 }
                                                                                                                          Enter the units of electricity: 78
                                                                                                                          Total amount of electricity bill is: 55.200
                                                                                                                          PS D:\BootCamp\C Programming\Assignments\Assignment 9> cd "d:\BootCamp\C Programming\Assignments\Assignment 9\" ; if ($?) { gcc 7.c -o 7 } ; if ($?) { .
                                     Enter the units of electricity: 0
                                                   case 1: amount = 100 + (units - 150) * 1.20;
                                                                                                                          Total amount of electricity bill is: 0.000
                                                                                                                          PS D:\BootCamp\C Programming\Assignments\Assignment 9> cd "d:\BootCamp\C Programming\Assignments\Assignment 9\" ; if ($?) { gcc 7.c -o 7 } ; if ($?) { .
                                                   case 0: amount = 220 + (units - 250) * 1.50;
break;
                                                                                                                          Enter the units of electricity: 100
                                                                                                                          Total amount of electricity bill is: 75.000
                    total = amount + amount * 0.20;
printf("\nTotal amount of electricity bill is: %.3f", total);
                                                                                                                          PS D:\BootCamp\C Programming\Assignments\Assignment 9>
```

Q8.

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刘 File Edit Selection View Go Run Terminal Help
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                                                                                                                                                                                                                                                                                                Windows PowerShell
                                                                                                                                                                                                                                                                                                Copyright (C) Microsoft Corporation. All rights reserved.
                                                                                                                                                                                                                                                                                                Install the latest PowerShell for new features and improvements! https://aka
                                           int main()
                                                        int num, num1;
printf("\nEnter a number: ");
scanf("%d", &num);
                                                                                                                                                                                                                                                                                                PS D:\BootCamp\C Programming\Assignments\Assignment 9> cd "d:\BootCamp\C Programming\Assignments\Assignment 9\" ; if ($?) { gcc 8.c -o 8 } ; if ($?) { .
                                                                                                                                                                                                                                                                                              gramming\Assignments\Assignments\Assignments\Assignments\Assignments\Assignments\Assignments\Assignments\Assignments\Assignments\Assignments\Assignments\Assignments\Assignments\Assignments\Assignments\Assignments\Assignments\Assignments\Assignments\Assignments\Assignments\Assignments\Assignments\Assignments\Assignments\Assignments\Assignments\Assignments\Assignments\Assignments\Assignments\Assignments\Assignments\Assignments\Assignments\Assignments\Assignments\Assignments\Assignments\Assignments\Assignments\Assignments\Assignments\Assignments\Assignments\Assignments\Assignments\Assignments\Assignments\Assignments\Assignments\Assignments\Assignments\Assignments\Assignments\Assignments\Assignments\Assignments\Assignments\Assignments\Assignments\Assignments\Assignments\Assignments\Assignments\Assignments\Assignments\Assignments\Assignments\Assignments\Assignments\Assignments\Assignments\Assignments\Assignments\Assignments\Assignments\Assignments\Assignments\Assignments\Assignments\Assignments\Assignments\Assignments\Assignments\Assignments\Assignments\Assignments\Assignments\Assignments\Assignments\Assignments\Assignments\Assignments\Assignments\Assignments\Assignments\Assignments\Assignments\Assignments\Assignments\Assignments\Assignments\Assignments\Assignments\Assignments\Assignments\Assignments\Assignments\Assignments\Assignments\Assignments\Assignments\Assignments\Assignments\Assignments\Assignments\Assignments\Assignments\Assignments\Assignments\Assignments\Assignments\Assignments\Assignments\Assignments\Assignments\Assignments\Assignments\Assignments\Assignments\Assignments\Assignments\Assignments\Assignments\Assignments\Assignments\Assignments\Assignments\Assignments\Assignments\Assignments\Assignments\Assignments\Assignments\Assignments\Assignments\Assignments\Assignments\Assignments\Assignments\Assignments\Assignments\Assignments\Assignments\Assignments\Assignments\Assignments\Assignments\Assignments\Assignments\Assignments\Assignments\Assignments\Assignments\Assignments\Assignments\Assignments\Assignmen
                                                        printf("\nBefore Conversion: %d\n", num);
                                                          switch (num > 0)
                                                                                                                                                                                                                                                                                                Enter a number: 2
                                                                       case 1: num = -num;
    printf("\nAfter Conversion: %d", num);
                                                                                                                                                                                                                                                                                                Before Conversion: 2
                                                                                                                                                                                                                                                                                                After Conversion: -2
                                                                                                                                                                                                                                                                                                PS D:\BootCamp\C Programming\Assignments\Assignment 9> cd "d:\BootCamp\C Programming\Assignments\Assignment 9\" ; if (\$?) { gcc 8.c -o 8 } ; if (\$?) { .
                                                                       case 0: num = -num;
    printf("\nAfter Conversion: %d", num);
                                                                                                                                                                                                                                                                                              Before Conversion: 0
                                                                                                                                                                                                                                                                                                After Conversion: 0
                                                           return 0;
                                                                                                                                                                                                                                                                                                PS D:\BootCamp\C Programming\Assignments\Assignment 9> []
```

Q9.

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刘 File Edit Selection View Go Run Terminal Help
                                                                                      9.c - Assignment 9 - Visual Studio Code
                                                                                                                                                                          ▷ ∨ ⇔ □ …
                                                                                                                  PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL JUPYTER ∑ Code + ∨ ⊟ 🛍 <
                                                                                                                   Copyright (C) Microsoft Corporation. All rights reserved.
                                                                                                                  Install the latest PowerShell for new features and improvements! https://aka
                                                                                                                  PS D:\BootCamp\C Programming\Assignments\Assignment 9> cd "d:\BootCamp\C Programming\Assignments\Assignment 9\" ; if (\$?) { gcc 9.c -o 9 } ; if (\$?) {
                       int num;
printf("\nEnter a number: ");
scanf("%d", &num);
                                                                                                                  Enter a number: 4
                       printf("\nBefore Conversion: %d\n", num);
                                                                                                                   Before Conversion: 4
                       switch (num % 2)
                                                                                                                  PS D:\BootCamp\C Programming\Assignments\Assignment 9> cd "d:\BootCamp\C Programming\Assignments\Assignments\Assignment 9\" ; if ($\frac{$}{7}$) { gcc 9.c -o 9 } ; if ($\frac{$}{7}$) { ...
                            case 1: printf("\nAfter Conversion: %d", num);
                                                                                                                   Enter a number: 0
                            case 0: printf("\nAfter Conversion: %d", ++num);
                                                                                                                   After Conversion: 1
                             case -1: printf("\nAfter Conversion: %d", num);
                                                                                                                  PS D:\BootCamp\C Programming\Assignments\Assignment 9> cd "d:\BootCamp\C Programming\Assignments\Assignment 9\" ; if ($?) { gcc 9.c -o 9 } ; if ($?) {
                                                                                                                  Enter a number: -1
                        return 0;
                                                                                                                   Before Conversion: -1
                                                                                                                   PS D:\BootCamp\C Programming\Assignments\Assignment 9>
```

Q10.

```
刘 File Edit Selection View Go Run Terminal Help
                                                                                                                                                                                   PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL JUPYTER oldsymbol Code oldsymbol{+} ee oldsymbol{	ext{lim}} oldsymbol{<}
                                                                                                 ▷ ∨ ⇔ □ …
                                                                                                                         Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.
                                                                                                                         Install the latest PowerShell for new features and improvements! 
  \verb|https://aka.ms/PSWindows| 
                   PS D:\BootCamp\C Programming\Assignments\Assignment 9> cd "d:\BootCamp\C Programming\Assignments\Assignment 9\" ; if ($?) { gcc 10.c -o 10 } ; if ($?) { .\10 }
                                                                                                                         Enter the value of a: 5
                                                                                                                         Enter the value of b: 6
                                                                                                                         Enter the value of c: 2
                                                                                                                         The roots are imaginary and conjugate of each other: -15.000 + (0.200)i , -1 5.000 - (0.200)i
                                                                                                                         PS D:\BootCamp\C Programming\Assignments\Assignment 9> cd "d:\BootCamp\C Programming\Assignments\Assignment 9\"; if ($?) { gcc 10.c -o 10 }; if ($?) {
                                                                                                                         gramming\Assignme
.\10 }
                                  case 1: D = 4*a*c - b*b;

x1 = x2 = (-b / 2*a);

imaginary = sqrt(D) / (2*a);
                                                                                                                         Enter the value of b: -5
                                                                                                                         Enter the value of c: 6
                                                                                                                         PS D:\BootCamp\C Programming\Assignments\Assignment 9>
                                                                                                                                                Ln 5, Col 17 Spaces: 8 UTF-8 CRLF C @ Go Live Win32 🔊 🚨
```