ASSIGNMENT - 03

(Decision Control Statements)

Q1.

```
C 1.c
                                                                      ⊳ ∨ ⊕ Ш ···
                                                                                                                                                 DEBUG CONSOLE TERMINAL · · ·
                                                                                        Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.
    1 #include<stdio.h>
                                                                                         Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows
         int main()
                                                                                        PS D:\BootCamp\C Programming\Assignments\Assignment 3> cd "d:\BootCamp\C Programming\Assignments\Assignment 3\" ; if ($?) { gcc 1.c -o 1 } ; if ($?) { .\1 } Enter a number: -23
                int num;
               printf("Enter a number: ");
               scanf("%d", &num);
                                                                                         -23 is non-positive
PS D:\BootCamp\C Programming\Assignments\Assignment 3>
                if (num > 0)
                     printf("\n%d is positive", num);
                     printf("\n%d is non-positive", num);
               return 0;
                                                                                                              Ln 6, Col 23 Spaces: 4 UTF-8 CRLF C @ Go Live Win32 룄
```

Q2.

```
🖈 File Edit Selection View Go Run Terminal Help
                                                                          2.c - Assignment 3 - Visual Studio Code
                                                                                     D ∨ ∰ ∏ ...
                                                                                                         PROBLEMS OUTPUT TERMINAL ···
                                                                                                                                                        Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.
               #include<stdio.h>
                                                                                                        Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows
                int main()
                                                                                                        PS D:\BootCamp\C Programming\Assignments\Assignment 3> cd "d:\BootCamp\C Programming\Assignments\Assignment 3\" ; if ($?) { gcc 2.c -o 2 } ; if ($?) { .\2 } Enter a number: 34
                      int num;
                      printf("Enter a number: ");
                      scanf("%d", &num);
                                                                                                        34 is not divisible by 5
PS D:\BootCamp\C Programming\Assignments\Assignment 3>
                       if (num % 5 == 0)
                            printf("\n%d is divisible by 5", num);
                            printf("\n%d is not divisible by 5", num);
```

Q3.

```
🔀 File Edit Selection View Go Run Terminal Help
                                                               3.c - Assignment 3 - Visual Studio Code
                                                                                                                              > < ⇔ □ ···</p>
                                                                                                           DEBUG CONSOLE TERMINAL ··· ☑ Code + ∨ 日 🛍 〈
                                                                                         Windows PowerShell
                                                                                         Copyright (C) Microsoft Corporation. All rights reserved.
         1 #include<stdio.h>
                                                                                         Install the latest PowerShell for new features and improvements! https:
          2 int main()
                                                                                         //aka.ms/PSWindows
                                                                                         PS D:\BootCamp\C Programming\Assignments\Assignment 3> cd "d:\BootCamp\
                    int num;
                                                                                         C Programming\Assignments\Assignment 3\"; if ($?) { gcc 3.c -o 3 }; if ($?) { .\3 }
Enter a number: 24
                   printf("Enter a number: ");
                   scanf("%d", &num);
                                                                                         24 is an even number
                                                                                         PS D:\BootCamp\C Programming\Assignments\Assignment 3>
                   if (num % 2 == 0)
                         printf("\n%d is an even number", num);
                      printf("\n%d is an odd number", num);
        13
(Q)
                                                                                                     Ln 13, Col 5 Spaces: 4 UTF-8 CRLF C @ Go Live Win32 & Q
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```

Q4.

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                                                                      4.c - Assignment 3 - Visual Studio Code
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                                                                                                                                      TERMINAL ··· 区Code 十 × 日 🛍 〈
                                                                                                  Copyright (C) Microsoft Corporation. All rights reserved.
          1 #include<stdio.h>
                                                                                                   Install the latest PowerShell for new features and improvements! https:
               int main()
                                                                                                  PS D:\BootCamp\C Programming\Assignments\Assignment 3> cd "d:\BootCamp\C Programming\Assignments\Assignment 3\" ; if ($?) { gcc 4.c -o 4 } ; if ($?) { .\4 } Enter a number: 73
                     int num;
                     printf("Enter a number: ");
                      scanf("%d", &num);
                                                                                                   73 is an odd number
PS D:\BootCamp\C Programming\Assignments\Assignment 3>
                      if((num & 1) == 0)
                           printf("\n%d is an even number", num);
                           printf("\n%d is an odd number", num);
∞0 10 0
                                                                                                               Ln 14, Col 2 Spaces: 4 UTF-8 CRLF C @ Go Live Win32 & 요
```

Q5.

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                                                                           5.c - Assignment 3 - Visual Studio Code

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                                                                                                                                 TERMINAL ...
                                                                                                            Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.
 Q
          1 #include<stdio.h>
                                                                                                            Install the latest PowerShell for new features and improvements! htt
           2 int main()
                                                                                                            ps://aka.ms/PSWindows
                                                                                                            PS D:\BootCamp\C Programming\Assignments\Assignment 3> cd "d:\BootCamp\C Programming\Assignments\Assignment 3\" ; if ($?) { gcc 5.c -o 5 } ; if ($?) { .\5 } Enter a number: 647
                      int num;
                      printf("Enter a number: ");
                      scanf("%d", &num);
                                                                                                            647 is a three digit number PS D:\BootCamp\C Programming\Assignments\Assignment 3>
                      if (num >= 100 && num <= 999)
                            printf("\n%d is a three digit number", num);
                            printf("\n%d is not a three digit number", num);
                                                                                                                       Ln 9, Col 20 Spaces: 4 UTF-8 CRLF C @ Go Live Win32 № Q
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```

Q6.

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                                                                       6.c - Assignment 3 - Visual Studio Code
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      C 6.c
                                                                                                        PROBLEMS OUTPUT TERMINAL ...
                                                                                                       Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.
          1 #include<stdio.h>
                                                                                                       Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows
               int main()
                                                                                                       PS D:\BootCamp\C Programming\Assignments\Assignment 3> cd "d:\BootCamp\C Programming\Assignments\Assignment 3\" ; if ($?) { gcc 6.c -o 6 } ; if ($?) { .\6 } Enter the first number: 34 Enter the second number: 12
                     int a, b;
                     printf("Enter the first number: ");
                     printf("Enter the second number: ");
                     scanf("%d", &b);
                                                                                                    printf("\n%d is greatest.", a);
                        printf("\n%d is greatest.", b);
                                                                                                                Ln 14, Col 40 Spaces: 4 UTF-8 CRLF C 🏟 Go Live Win32 🔊 🚨
```

Q7.

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                                                                                   7.c - Assignment 3 - Visual Studio Code
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                                                                                                                         PROBLEMS OUTPUT TERMINAL ...
       C 7.c
                                                                                                                        Windows PowerShell
                                                                                                                        Copyright (C) Microsoft Corporation. All rights reserved.
                #include<stdio.h>
                                                                                                                        Install the latest PowerShell for new features and improvements! htt ps://aka.ms/PSWindows
                      int a, b, c, D;
                                                                                                                        PS D:\BootCamp\C Programming\Assignments\Assignment 3> cd "d:\BootCamp\C Programming\Assignments\Assignment 3\"; if ($?) { gcc 7.c -o 7}; if ($?) { cc 7.c -o 7}; if ($?) { .\7} Enter the value of a: 2 Enter the value of b: 5 Enter the value of c: 2
                      printf("Enter the value of a: ");
scanf("%d", &a);
                      printf("Enter the value of c: ");
                                                                                                                        The roots of given QE are real and distinct PS D:\BootCamp\C Programming\Assignments\Assignment 3>
                      D = b*b - 4*a*c;
                      if(D > 0)
                          printf("\nThe roots of given QE are real and distinct");
                           printf("\nThe roots of given QE are real and equal");
                          printf("\nThe roots of given QE are imaginary");
                                                                                                                                    Ln 5, Col 38 Spaces: 4 UTF-8 CRLF C 📦 Go Live Win32 尽 🗘
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```

Q8.

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                                                                                                                                                    C 8.c
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                                                                                                             PROBLEMS OUTPUT TERMINAL ...
                                                                                                                                                          Copyright (C) Microsoft Corporation. All rights reserved.
                                                                                                            Install the latest PowerShell for new features and improvements! htt ps://aka.ms/PSWindows
              int main()
                    int year;
                                                                                                            PS D:\BootCamp\C Programming\Assignments\Assignment 3> cd "d:\BootCamp\C Programming\Assignments\Assignment 3\" ; if ($?) { gcc 8.c -0 8 } ; if ($?) { .\8 } Enter a year: 3000
                   printf("Enter a year: ");
                   scanf("%d", &year);
                    if (year % 100 != 0)
                                                                                                            3000 is not a leap year
PS D:\BootCamp\C Programming\Assignments\Assignment 3>
                        if (year % 4 == 0)
                             printf("\n%d is a leap year", year);
                             printf("\n%d is not a leap year", year);
                         if (year % 400 == 0)
                             printf("\n%d is a leap year", year);
                           printf("\n%d is not a leap year", year);
                                                                                                                      Ln 11, Col 30 Spaces: 4 UTF-8 CRLF C 📦 Go Live Win32 🔊 🚨
\otimes 0 \wedge 0
```

Q9 .

```
刘 File Edit Selection View Go Run Terminal Help
                                                                        9.c - Assignment 3 - Visual Studio Code

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       C 9.c
                                                                                                         PROBLEMS OUTPUT TERMINAL ...
                                                                                                         Windows PowerShell
                                                                                                        Copyright (C) Microsoft Corporation. All rights reserved.
 Q
          1 #include<stdio.h>
               int main()
                                                                                                         Install the latest PowerShell for new features and improvements! htt
                                                                                                      __ ps://aka.ms/PSWindows
                     int a, b, c;
                                                                                                        PS D:\BootCamp\C Programming\Assignments\Assignment 3> cd "d:\BootCamp\C Programming\Assignments\Assignment 3\"; if ($?) { gcc 9.c -o 9
                    printf("Enter the first number: ");
                                                                                                        }; if ($?) { .\9 }
Enter the first number: 34
                    printf("Enter the second number: ");
                                                                                                        Enter the second number: 55
Enter the third number: 55
                    printf("Enter the third number: ");
                                                                                                        55 is a greatest number
PS D:\BootCamp\C Programming\Assignments\Assignment 3>
                             printf("\n%d is a greatest number", a);
                              printf("\n%d is a greatest number", c);
                              printf("\n%d is a greatest number", b);
                              printf("\n%d is a greatest number", c);
                                                                                                                  Ln 6, Col 21 Spaces: 4 UTF-8 CRLF C @ Go Live Win32 & 다
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```

Q10.

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🖈 File Edit Selection View Go Run Terminal Help
                                                                                                                                                               C 10.c
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                                                                                                                         Windows PowerShell
                                                                                                                         Copyright (C) Microsoft Corporation. All rights reserved.
               #include<stdio.h>
                int main()
                                                                                                                         Install the latest PowerShell for new features and improvements! 
 \verb|https://aka.ms/PSWindows|
                     float CP, SP, profit, profit_percent, loss, loss_percent;
                                                                                                                         PS D:\BootCamp\C Programming\Assignments\Assignment 3> cd "d:\Bo otCamp\C Programming\Assignments\Assignment 3\"; if ($?) { gcc 10.c -o 10 }; if ($?) { .\10 }
Enter Cost Price of a product(in Rupees): 5000
Enter Selling Price of a product(in Rupees): 2500
                     printf("Enter Cost Price of a product(in Rupees): ");
                     scanf("%f", &CP);
                     printf("Enter Selling Price of a product(in Rupees): ");
                     scanf("%f", &SP);
                                                                                                                         The loss percentage is: 50.000 %
PS D:\BootCamp\C Programming\Assignments\Assignment 3>
                     if (SP > CP)
                          profit = SP - CP;
                          profit_percent = (profit / CP) * 100;
                          printf("\nThe profit percentage is: %.3f %%", profit_percent);
                          loss = CP - SP;
loss_percent = (loss / CP) * 100;
                          printf("\nThe loss percentage is: %.3f %%", loss_percent);
(Q)
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                                                                                                                              Ln 21, Col 19 Spaces: 4 UTF-8 CRLF C @ Go Live Win32 📈 🚨
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Q11.

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                                                                         11.c - Assignment 3 - Visual Studio Code
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      C 11c
                                                                                ▷ × ‡ □ ··· PROBLEMS OUTPUT TERMINAL ···
                                                                                                   Windows PowerShell Copyright (C) Microsoft Corporation. All rights reserved.
 Q
               #include<stdio.h>
               int main()
                                                                                                — Install the latest PowerShell for new features and improvements! https://ak
                                                                                                   PS D:\BootCamp\C Programming\Assignments\Assignment 3> cd "d:\BootCamp\C Programming\Assignments\Assignment 3\"; if ($?) { gcc 11.c -o 11 }; if ($?) { .\11 }
                     int s1, s2, s3, s4, s5;
                     printf("Enter the marks of 1st subject: ");
                                                                                                   Enter the marks of 1st subject: 45
Enter the marks of 2nd subject: 34
                     printf("Enter the marks of 2nd subject: ");
                                                                                                   Enter the marks of 3rd subject: 67
Enter the marks of 4th subject: 89
                     scanf("%d", &s2);
                     printf("Enter the marks of 3rd subject: ");
                                                                                                   Enter the marks of 5th subject: 23
                     scanf("%d", &s3);
                                                                                                   Candidate is failed
PS D:\BootCamp\C Programming\Assignments\Assignment 3>
                     printf("Enter the marks of 4th subject: ");
                     scanf("%d", &s4);
                     printf("Enter the marks of 5th subject: ");
                          printf("\nCandidate is passed");
                         printf("\nCandidate is failed");
                                                                                                                     Ln 4, Col 28 Spaces: 4 UTF-8 CRLF C @ Go Live Win32 🔊 🚨
⊗ 0 ∆ 0
```

Q12.

```
X File Edit Selection View Go Run Terminal Help
                                                                     12.c - Assignment 3 - Visual Studio Code
                                                                                                                                         C 12.c
                                                                                             Windows PowerShell
                                                                                             Copyright (C) Microsoft Corporation. All rights reserved.
                                                                                             Install the latest PowerShell for new features and improvements! https://ak
                                                                                             PS D:\BootCamp\C Programming\Assignments\Assignment 3> cd "d:\BootCamp\C Programming\Assignments\Assignment 3\"; if ($?) { gcc 12.c -o 12 }; if ($?) { .\12 } Enter an alphabet: \footnote{J}
                    char ch;
                   printf("Enter an alphabet: ");
                    scanf("%c", &ch);
                                                                                          ___ J is an uppercase alphabet.
PS D:\BootCamp\C Programming\Assignments\Assignment 3> ■
                    if (ch >= 'A' && ch <= 'Z')
                        printf("\n%c is an uppercase alphabet.", ch);
                      printf("\n%c is a lowercase alphabet.", ch);
                    return 0;
⊗ 0 ∆ 0
                                                                                                             Ln 13, Col 5 Spaces: 4 UTF-8 CRLF C @ Go Live Win32 🔊 🚨
```

Q13.

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                                                                         13.c - Assignment 3 - Visual Studio Code
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                                                                                 ▷ ∨ @ □ …
      C 13c
                                                                                                    PROBLEMS OUTPUT TERMINAL ...
                                                                                                    Windows PowerShell
                                                                                                    Copyright (C) Microsoft Corporation. All rights reserved.
          1 #include<stdio.h>
2 int main()
                                                                                                    Install the latest PowerShell for new features and improvements! https://a
                                                                                                    PS D:\BootCamp\C Programming\Assignments\Assignment 3> cd "d:\BootCamp\C Programming\Assignments\Assignment 3\" ; if ($?) { gcc 13.c -o 13 } ; if ($?) { .\13 } Enter a number: 69
                    int num;
                     printf("Enter a number: ");
                     scanf("%d", &num);
                                                                                                   69 is not divisible by 2 and 3
PS D:\BootCamp\C Programming\Assignments\Assignment 3>
                     if (num % 2 == 0 && num % 3 == 0)
                         printf("\n%d is divisible by 2 and 3", num);
                      printf("\n%d is not divisible by 2 and 3", num);
                     return 0:
⊗ 0 A 0
                                                                                                                     Ln 13, Col 5 Spaces: 4 UTF-8 CRLF C @ Go Live Win32 № △
```

Q14.

```
▼ File Edit Selection View Go Run Terminal Help
                                                                                14.c - Assignment 3 - Visual Studio Code
                                                                                        D ∨ ② □ ··· PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL JUPYTER □ Code + ∨ □ ···
                                                                                                             Windows PowerShell
                                                                                                            Copyright (C) Microsoft Corporation. All rights reserved.
                int main()
                                                                                                            Install the latest PowerShell for new features and improvements! https://a ka.ms/PSWindows
                     int num;
printf("Enter a number: ");
scanf("%d", &num);
                                                                                                            PS D:\BootCamp\C Programming\Assignments\Assignment 3> cd "d:\BootCamp\C Programming\Assignments\Assignment 3\" ; if ($?) { gcc 14.c -o 14 } ; if ($?) { .\14 } Enter a number: 56
                     if (num % 3 == 0 || num % 7 == 0)
                                                                                                             56 is divisible by 3 or 7
PS D:\BootCamp\C Programming\Assignments\Assignment 3>
                        printf("\n%d is divisible by 3 or 7", num);
                        printf("\n%d is neither divisible by 3 nor 7", num);
⊗ 0 ▲ 0
                                                                                                                               Ln 9, Col 19 Spaces: 4 UTF-8 CRLF C @ Go Live Win32 & Q
```

Q15.

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XI File Edit Selection View Go Run Terminal Help
                                                                               15.c - Assignment 3 - Visual Studio Code
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                                                                                                             problems output debug console terminal jupyter \( \bigcircle{\chi} \) Code + 	imes \emptyrem \( \bigcircle{\chi} \)
                                                                                        ▷ ∨ ⇔ □ …
                                                                                                            Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.
         C 15.c > 分 main()
            1 #include<stdio.h>
                                                                                                            Install the latest PowerShell for new features and improvements! 
 \label{eq:https://a} \ ka.ms/PSWindows
                 int main()
                                                                                                            PS D:\BootCamp\C Programming\Assignments\Assignment 3> cd "d:\BootCamp\C P rogramming\Assignments\Assignment 3\" ; if ($?) { gcc 15.c -o 15 } ; if ($?) { .\15 }
Enter a number: 2300
                         int num;
                         printf("Enter a number: ");
                         scanf("%d", &num);
                                                                                                            2300 is positive
PS D:\BootCamp\C Programming\Assignments\Assignment 3>
                         if (num > 0)
                               printf("\n%d is positive", num);
                         else if(num == 0)
                               printf("\n%d is zero", num);
                               printf("\n%d is negative", num);
(2)
                                                                                                                              Ln 9, Col 41 Spaces: 4 UTF-8 CRLF C @ Go Live Win32 _ & 다
\otimes 0 \wedge 0
```

Q16.

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                                                                                                                 TERMINAL ...
                                                                                                                                             Windows PowerShell
                                                                                             Copyright (C) Microsoft Corporation. All rights reserved.
          1 #include<stdio.h>
                                                                                             Install the latest PowerShell for new features and improvements! 
 \label{eq:https://a} \ ka.ms/PSWindows
              int main()
                                                                                             PS D:\BootCamp\C Programming\Assignments\Assignment 3> cd "d:\BootCamp\C Programming\Assignments\Assignment 3\" ; if (\$?) { gcc 16.c -0 16 } ; if (\$?) { .\16 }
                    char ch;
                    printf("Enter a character: ");
scanf("%c", &ch);
                                                                                             Enter a character: 6
                                                                                             6 is a digit
PS D:\BootCamp\C Programming\Assignments\Assignment 3>
                    if (ch >= 'A' && ch <= 'Z')
         8
                        printf("\n%c is an uppercase alphabet", ch);
                    else if (ch >= 'a' && ch <= 'z')
                         printf("\n%c is a lowercase alphabet", ch);
                         printf("\n%c is a digit", ch);
                         printf("\n%c is a special character", ch);
(Q)
                                                                                                             Ln 8, Col 32 Spaces: 4 UTF-8 CRLF C 이 Go Live Win32 &
⊗ 0 ∆ 0
```

Q17.

```
▼ File Edit Selection View Go Run Terminal Help
                                                                            17.c - Assignment 3 - Visual Studio Code
                                                                                                                                                      ▷ ∨ ∰ Ш ...
                                                                                                                                                            C 17.c
                                                                                                           PROBLEMS OUTPUT TERMINAL ···
                                                                                                           Windows PowerShell
                                                                                                           Copyright (C) Microsoft Corporation. All rights reserved.
          1 #include<stdio.h>
2 int main()
                                                                                                           Install the latest PowerShell for new features and improvements! https
                                                                                                           ://aka.ms/PSWindows
                     int a, b, c;
                                                                                                           PS D:\BootCamp\C Programming\Assignments\Assignment 3> cd "d:\BootCamp\C Programming\Assignments\Assignment 3\" ; if (\$?) { gcc 17.c -o 17 } ; if (\$?) { .\17 } Enter the length of 1st side of a triangle: 4 Enter the length of 3rd side of a triangle: 7
                     printf("Enter the length of 1st side of a triangle: ");
                      scanf("%d", &a);
           6
                     printf("Enter the length of 2nd side of a triangle: ");
                     printf("Enter the length of 3rd side of a triangle: ");
                                                                                                           The triangle is valid.
PS D:\BootCamp\C Programming\Assignments\Assignment 3>
                      if (a + b > c \&\& b + c > a \&\& c + a > b)
                          printf("\nThe triangle is valid.");
                           printf("\nThe triangle is not valid.");
⊗ 0 ▲ 0
                                                                                                                        Ln 6, Col 21 Spaces: 4 UTF-8 CRLF C @ Go Live Win32 & 🗘
```

Q18.

```
🔀 File Edit Selection View Go Run Terminal Help
                                                                                                                                                                       C 18.c
                                                                                     ▷ ∨ ‡ □ ··· PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL JUPYTER
                                                                                                                                                                            Copyright (C) Microsoft Corporation. All rights reserved.
                #include<stdio.h>
                                                                                                          Install the latest PowerShell for new features and improvements! https://aka.ms/P
                    int month;
                    printf("Enter a month number(1 to 12): ");
scanf("%d", &month);
                                                                                                          PS D:\BootCamp\C Programming\Assignments\Assignment 3> cd "d:\BootCamp\C Programming\Assignments\Assignments\Assignment 3\" ; if ($?) { gcc 18.c -0 18 } ; if ($?) { .\18 } Enter a month number(1 to 12): 2
                     if (month >= 1 && month <= 7)
                                                                                                          Number of days = 28
PS D:\BootCamp\C Programming\Assignments\Assignment 3>
                         if (month % 2 != 0)
    printf("\nNumber of days = %d", 31);
                        else if (month == 2)
    printf("\nNumber of days = %d", 28);
                            printf("\nNumber of days = %d", 30);
                     else if (month >= 8 && month <= 12)
                         if(month % 2 == 0)
    printf("\nNumber of days = %d", 31);
                            printf("\nNumber of days = %d", 30);
(Q)
                                                                                                                                     Ln 12, Col 9 Spaces: 4 UTF-8 CRLF C 📦 Go Live Win32 🔊 🚨
⊗ 0 ∆ 0
```