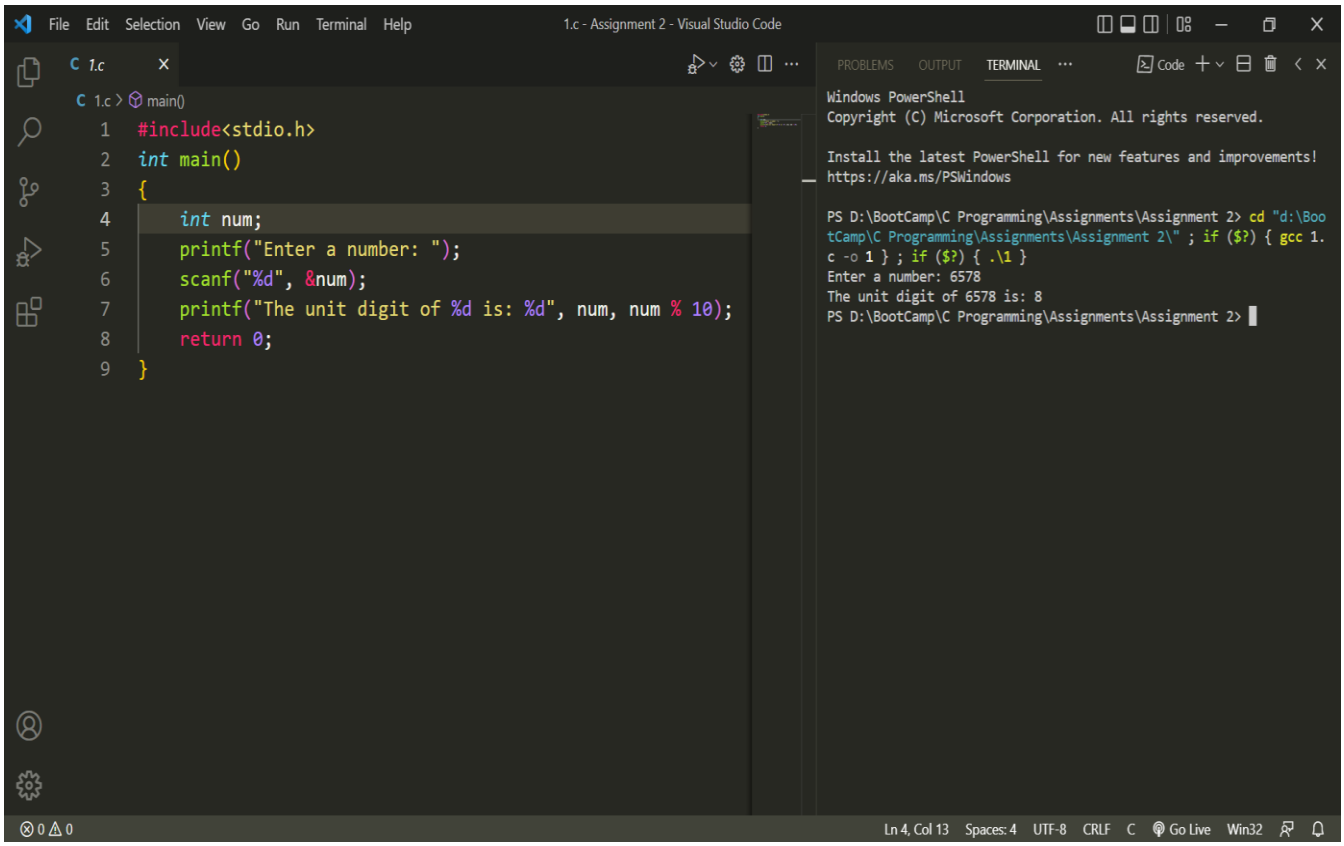
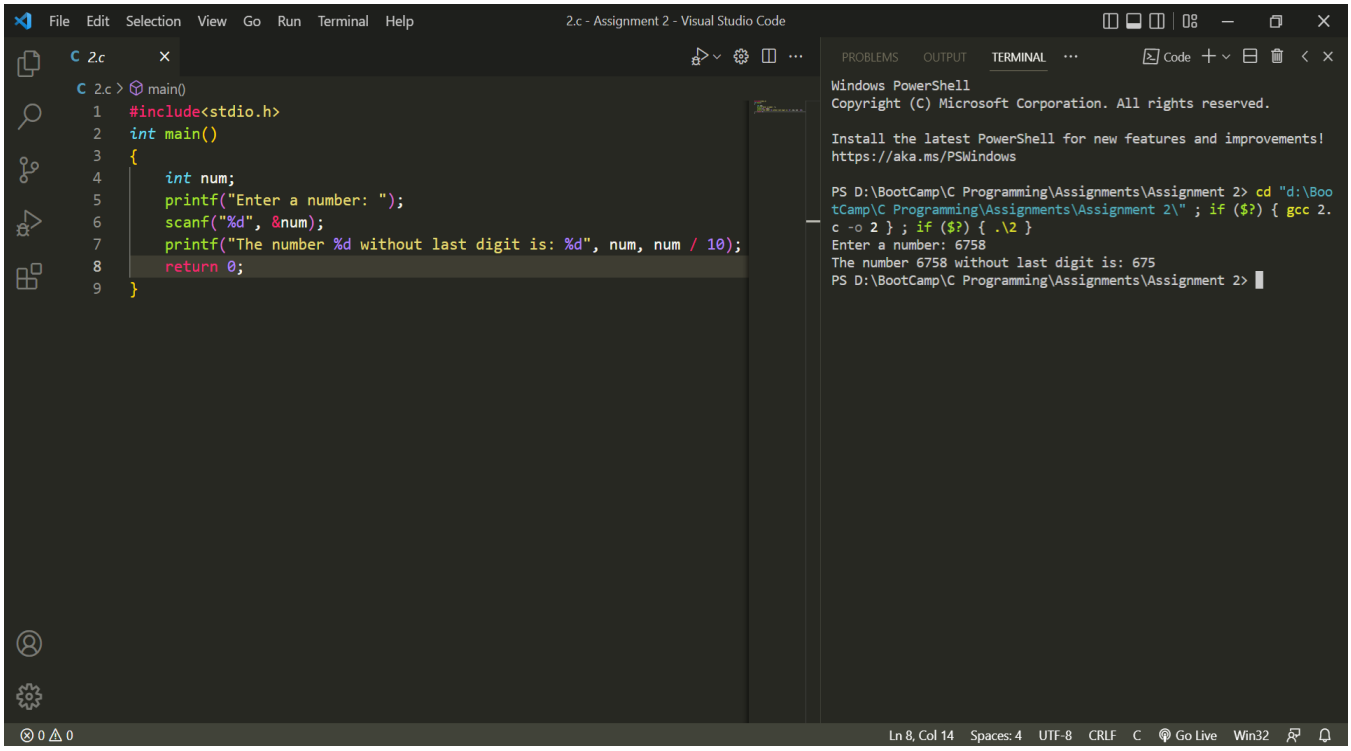
ASSIGNMENT – 02

(Operators in C language)

Q1.



Q2.


File Edit Selection View Go Run Terminal Help
2.c - Assignment 2 - Visual Studio Code
2.c
2.c > main()
#include<stdio.h>
int main()
{
int num;
printf("Enter a number: ");
scanf("%d", &num);
printf("The number %d without last digit is: %d", num, num / 10);
return 0;
}
PROBLEMS OUTPUT TERMINAL
Code
Windows PowerShell
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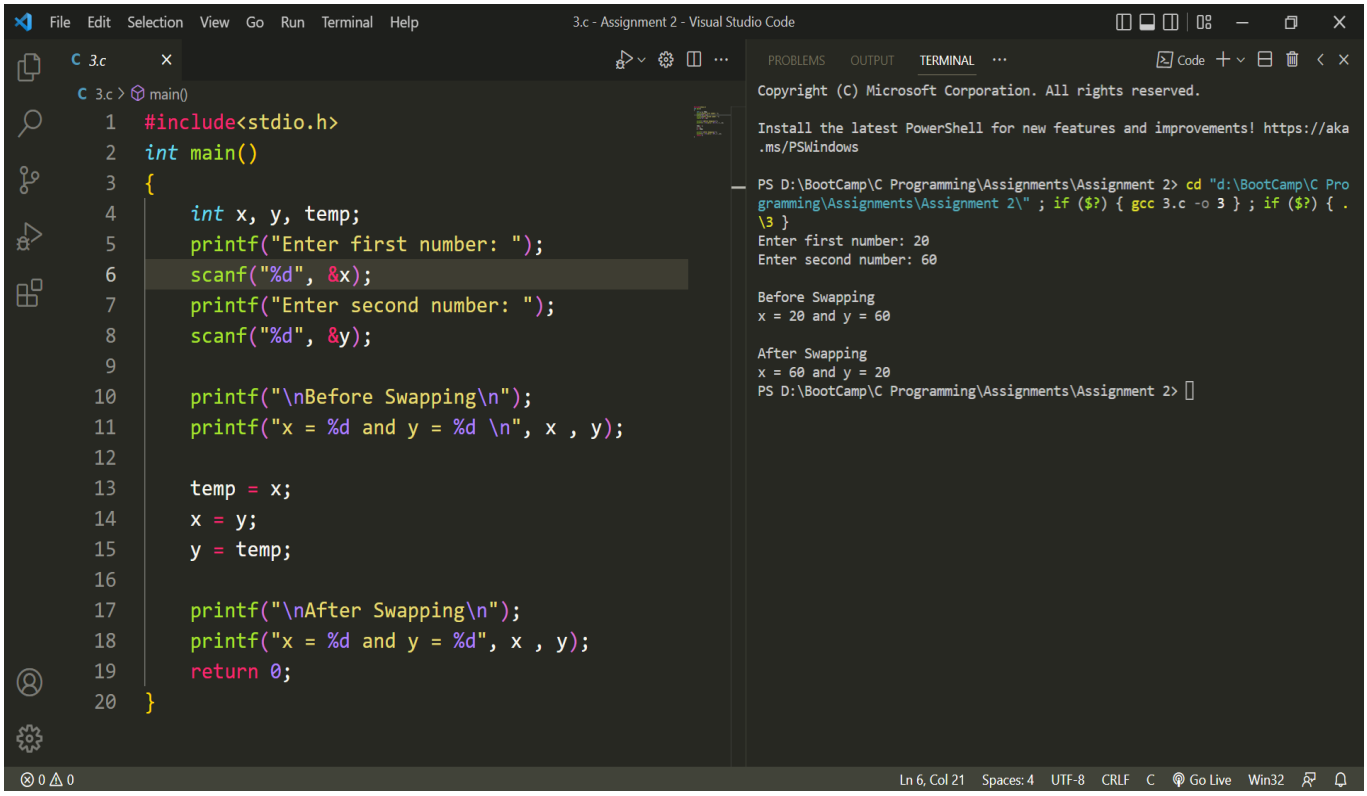
PS D:\BootCamp\C Programming\Assignments\Assignment 2> cd "d:\BootCamp\C Programming\Assignments\Assignment 2\" ; if ($?) { gcc 2.c -o 2 } ; if ($?) { .\2 }
Enter a number: 6758
The number 6758 without last digit is: 675
PS D:\BootCamp\C Programming\Assignments\Assignment 2>
0 0
Ln 8, Col 14 Spaces: 4 UTF-8 CRLF C Go Live Win32

Q3.


File Edit Selection View Go Run Terminal Help
3.c - Assignment 2 - Visual Studio Code
3.c
3.c > main()
#include<stdio.h>
int main()
{
int x, y, temp;
printf("Enter first number: ");
scanf("%d", &x);
printf("Enter second number: ");
scanf("%d", &y);
printf("\nBefore Swapping\n");
printf("x = %d and y = %d \n", x , y);
temp = x;
x = y;
y = temp;
printf("\nAfter Swapping\n");
printf("x = %d and y = %d", x , y);
return 0;
}
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Code
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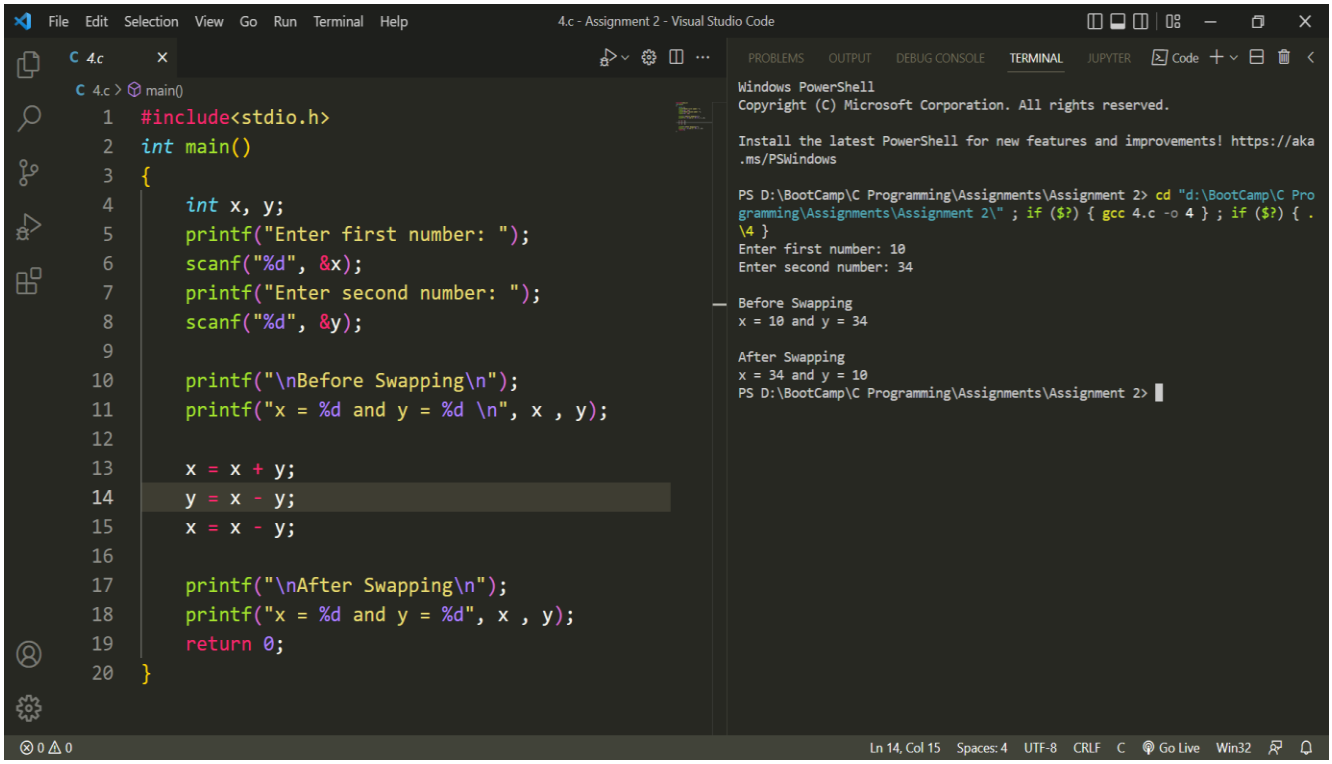
PS D:\BootCamp\C Programming\Assignments\Assignment 2> cd "d:\BootCamp\C Programming\Assignments\Assignment 2\" ; if ($?) { gcc 3.c -o 3 } ; if ($?) { .\3 }
Enter first number: 20
Enter second number: 60
Before Swapping
x = 20 and y = 60
After Swapping
x = 60 and y = 20
PS D:\BootCamp\C Programming\Assignments\Assignment 2>
0 0
Ln 6, Col 21 Spaces: 4 UTF-8 CRLF C Go Live Win32

Q4.


File Edit Selection View Go Run Terminal Help
4.c - Assignment 2 - Visual Studio Code
4.c
4.c > main()
#include<stdio.h>
int main()
{
int x, y;
printf("Enter first number: ");
scanf("%d", &x);
printf("Enter second number: ");
scanf("%d", &y);
printf("\nBefore Swapping\n");
printf("x = %d and y = %d \n", x , y);
x = x + y;
y = x - y;
x = x - y;
printf("\nAfter Swapping\n");
printf("x = %d and y = %d", x , y);
return 0;
}
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL JUPYTER
Code
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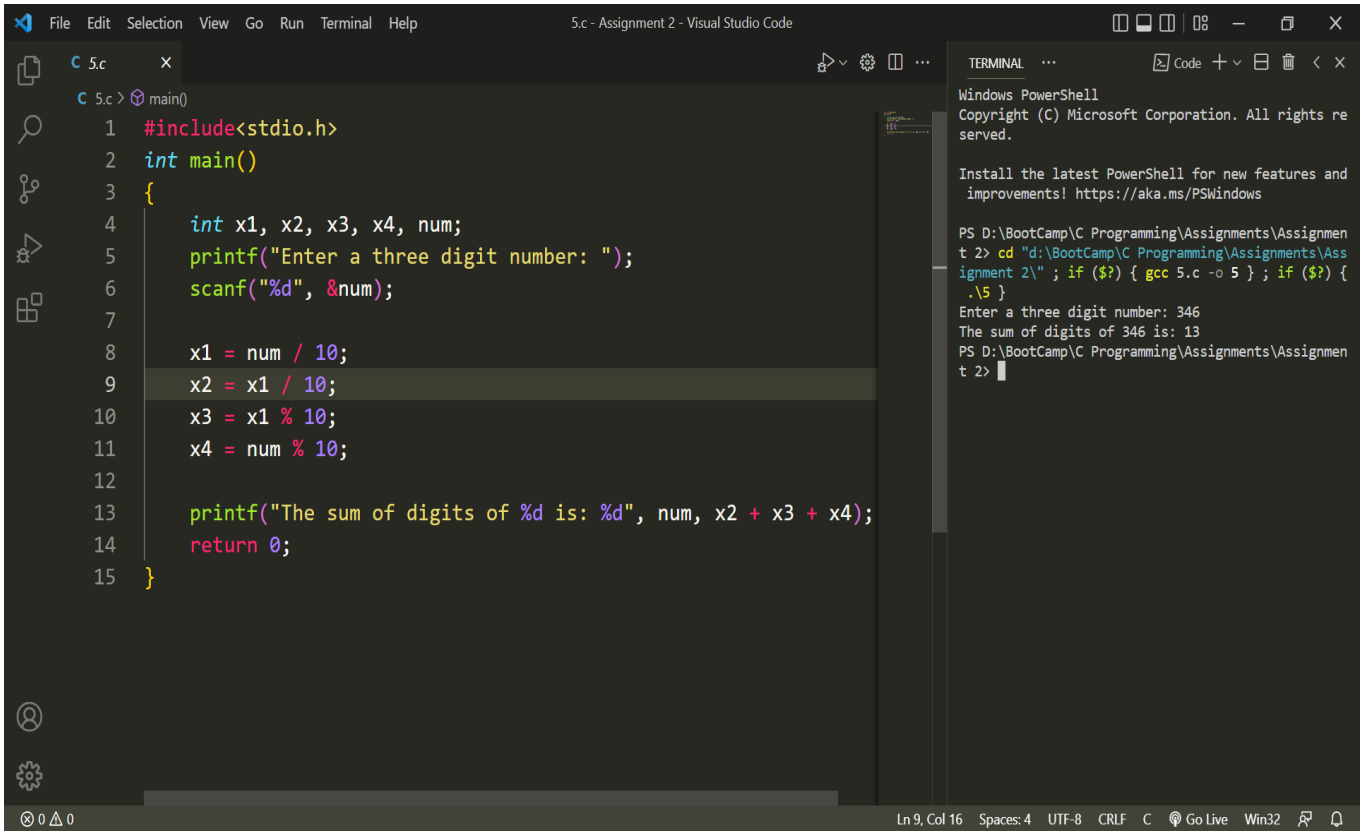
PS D:\BootCamp\C Programming\Assignments\Assignment 2> cd "d:\BootCamp\C Programming\Assignments\Assignment 2\" ; if ($?) { gcc 4.c -o 4 } ; if ($?) { .\4 }
Enter first number: 10
Enter second number: 34
Before Swapping
x = 10 and y = 34
After Swapping
x = 34 and y = 10
PS D:\BootCamp\C Programming\Assignments\Assignment 2>
Ln 14, Col 15 Spaces: 4 UTF-8 CRLF C Go Live Win32

Q5.


File Edit Selection View Go Run Terminal Help
5.c - Assignment 2 - Visual Studio Code
5.c
5.c > main()
#include<stdio.h>
int main()
{
int x1, x2, x3, x4, num;
printf("Enter a three digit number: ");
scanf("%d", &num);
x1 = num / 10;
x2 = x1 / 10;
x3 = x1 % 10;
x4 = num % 10;
printf("The sum of digits of %d is: %d", num, x2 + x3 + x4);
return 0;
}
TERMINAL
Code
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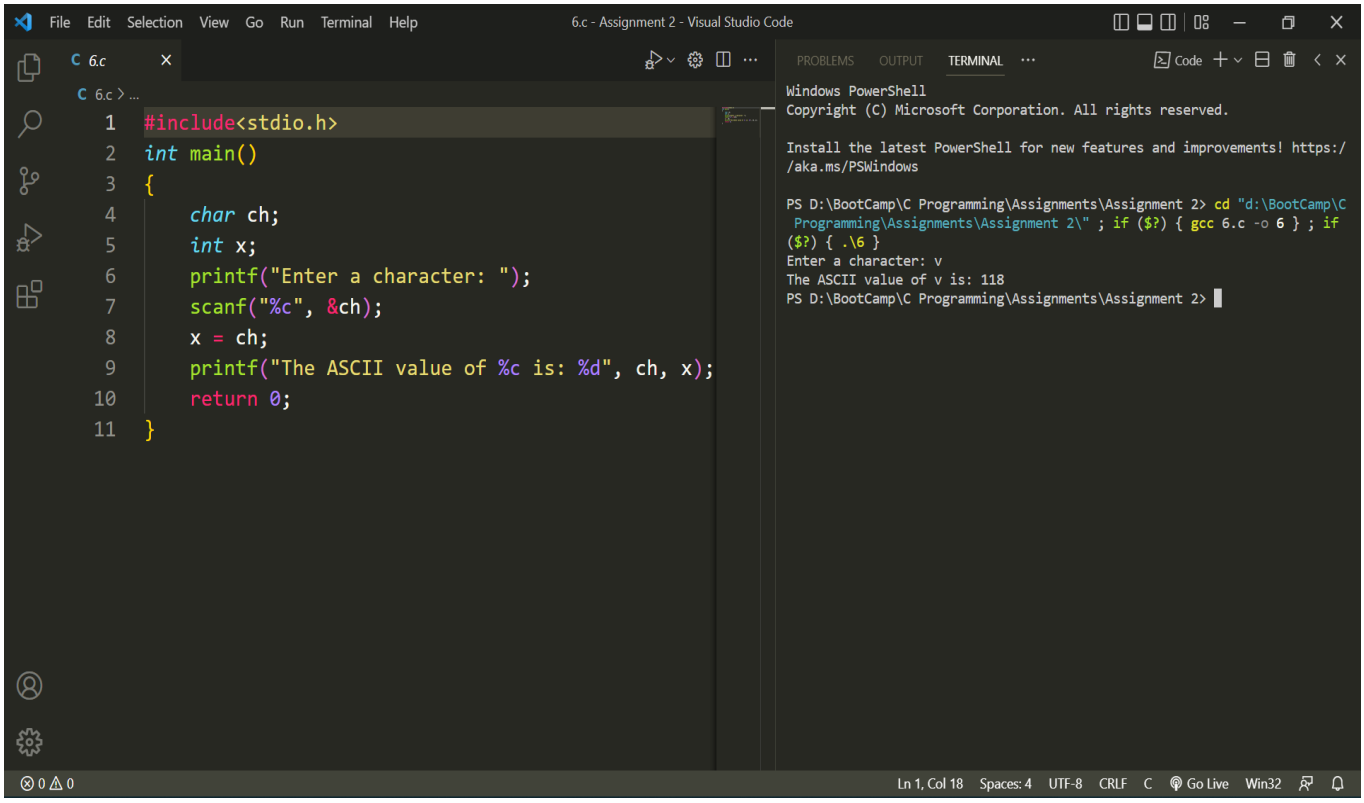
PS D:\BootCamp\C Programming\Assignments\Assignment 2> cd "d:\BootCamp\C Programming\Assignments\Assignment 2\" ; if ($?) { gcc 5.c -o 5 } ; if ($?) { .\5 }
Enter a three digit number: 346
The sum of digits of 346 is: 13
PS D:\BootCamp\C Programming\Assignments\Assignment 2>
Ln 9, Col 16 Spaces: 4 UTF-8 CRLF C Go Live Win32

Q6.


File Edit Selection View Go Run Terminal Help
6.c - Assignment 2 - Visual Studio Code
6.c
#include<stdio.h>
int main()
{
char ch;
int x;
printf("Enter a character: ");
scanf("%c", &ch);
x = ch;
printf("The ASCII value of %c is: %d", ch, x);
return 0;
}
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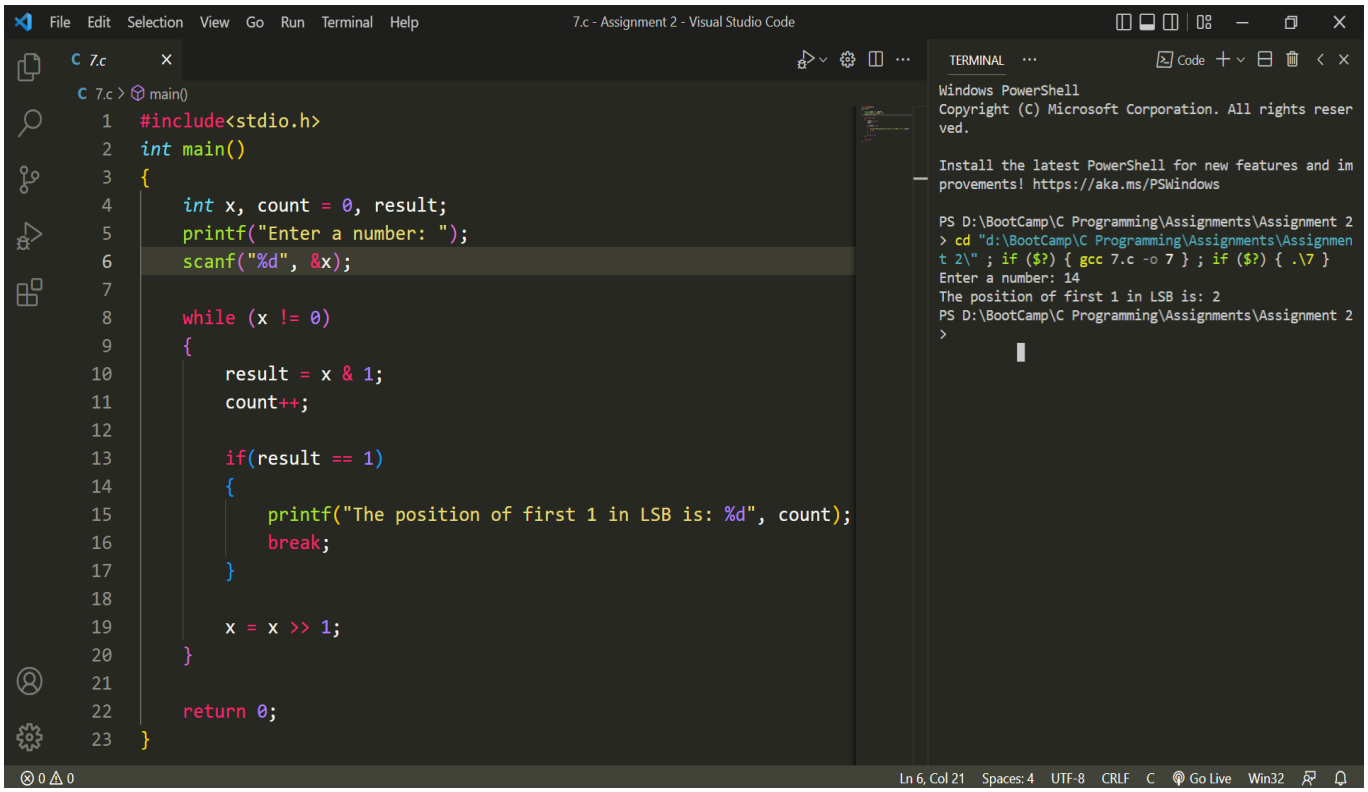
PS D:\BootCamp\C Programming\Assignments\Assignment 2> cd "d:\BootCamp\C Programming\Assignments\Assignment 2\" ; if ($?) { gcc 6.c -o 6 } ; if ($?) { .\6 }
Enter a character: v
The ASCII value of v is: 118
PS D:\BootCamp\C Programming\Assignments\Assignment 2>
Ln 1, Col 18 Spaces: 4 UTF-8 CRLF C Go Live Win32

Q7.


File Edit Selection View Go Run Terminal Help
7.c - Assignment 2 - Visual Studio Code
7.c
main()
#include<stdio.h>
int main()
{
int x, count = 0, result;
printf("Enter a number: ");
scanf("%d", &x);
while (x != 0)
{
result = x & 1;
count++;
if(result == 1)
{
printf("The position of first 1 in LSB is: %d", count);
break;
}
x = x >> 1;
}
return 0;
}
TERMINAL
Windows PowerShell
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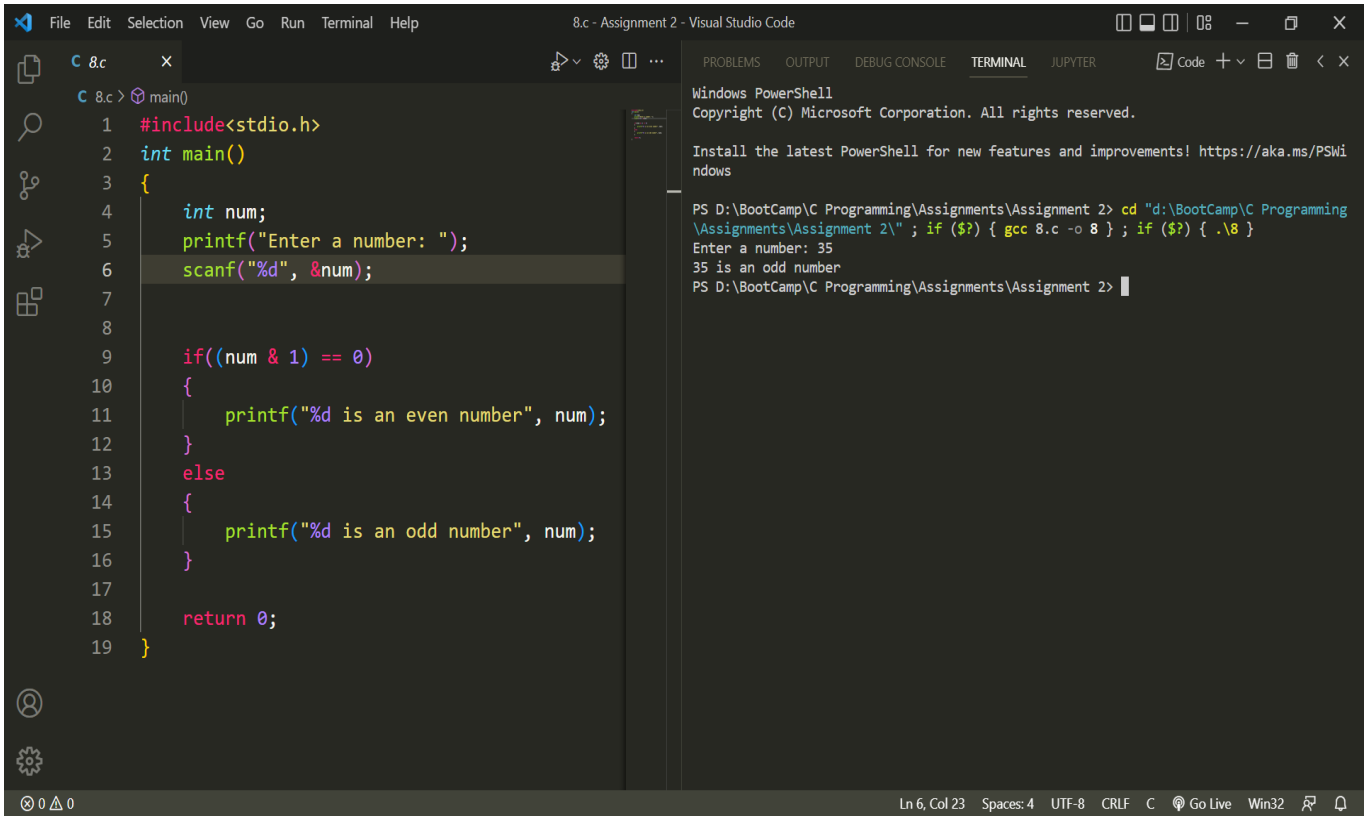
PS D:\BootCamp\C Programming\Assignments\Assignment 2> cd "d:\BootCamp\C Programming\Assignments\Assignment 2\" ; if ($?) { gcc 7.c -o 7 } ; if ($?) { .\7 }
Enter a number: 14
The position of first 1 in LSB is: 2
PS D:\BootCamp\C Programming\Assignments\Assignment 2>
Ln 6, Col 21 Spaces: 4 UTF-8 CRLF C Go Live Win32

Q8.


File Edit Selection View Go Run Terminal Help
8.c - Assignment 2 - Visual Studio Code
8.c
8.c > main()
#include<stdio.h>
int main()
{
int num;
printf("Enter a number: ");
scanf("%d", &num);
if((num & 1) == 0)
{
printf("%d is an even number", num);
}
else
{
printf("%d is an odd number", num);
}
return 0;
}
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Code
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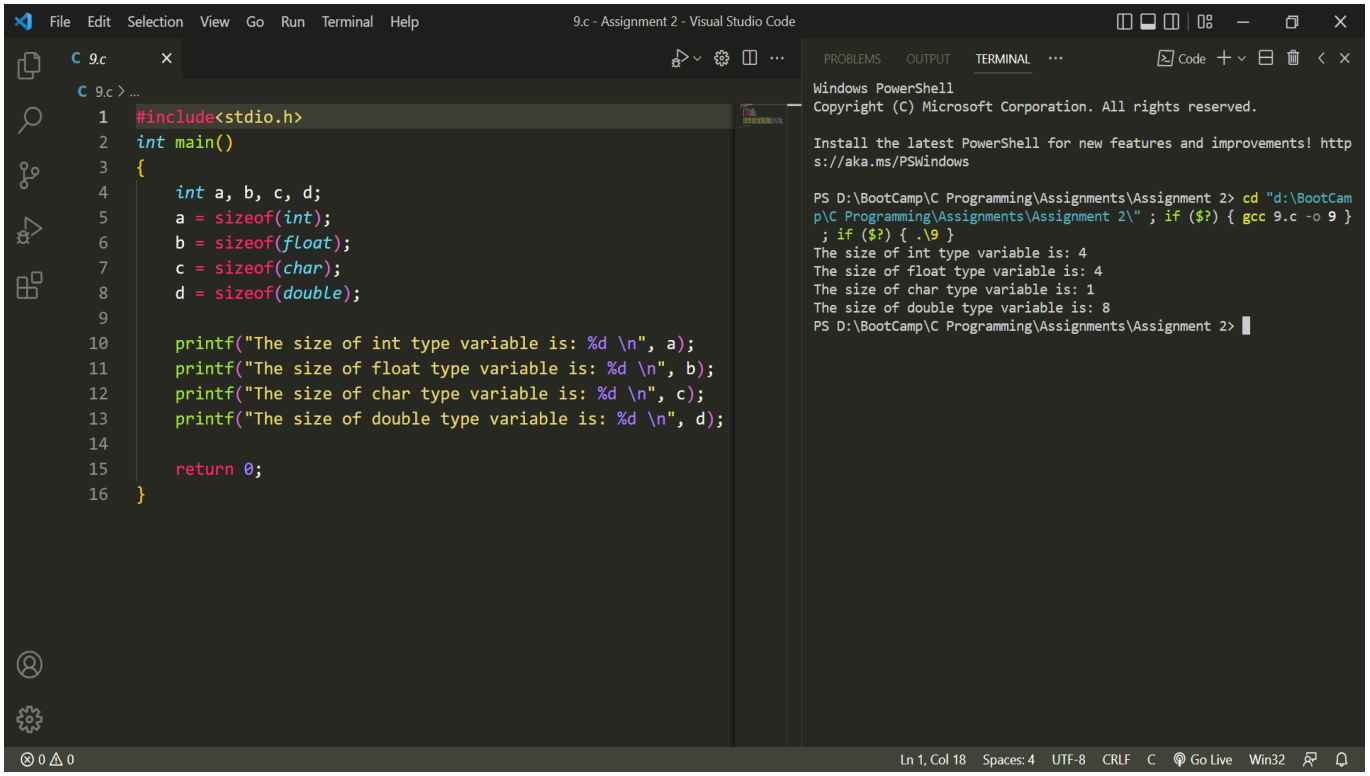
PS D:\BootCamp\C Programming\Assignments\Assignment 2> cd "d:\BootCamp\C Programming\Assignments\Assignment 2\" ; if ($?) { gcc 8.c -o 8 } ; if ($?) { .\8 }
Enter a number: 35
35 is an odd number
PS D:\BootCamp\C Programming\Assignments\Assignment 2>
0 0
Ln 6, Col 23 Spaces: 4 UTF-8 CRLF C Go Live Win32

Q9.


File Edit Selection View Go Run Terminal Help
9.c - Assignment 2 - Visual Studio Code
9.c
9.c > ...
#include<stdio.h>
int main()
{
int a, b, c, d;
a = sizeof(int);
b = sizeof(float);
c = sizeof(char);
d = sizeof(double);
printf("The size of int type variable is: %d \n", a);
printf("The size of float type variable is: %d \n", b);
printf("The size of char type variable is: %d \n", c);
printf("The size of double type variable is: %d \n", d);
return 0;
}
PROBLEMS OUTPUT TERMINAL
Code
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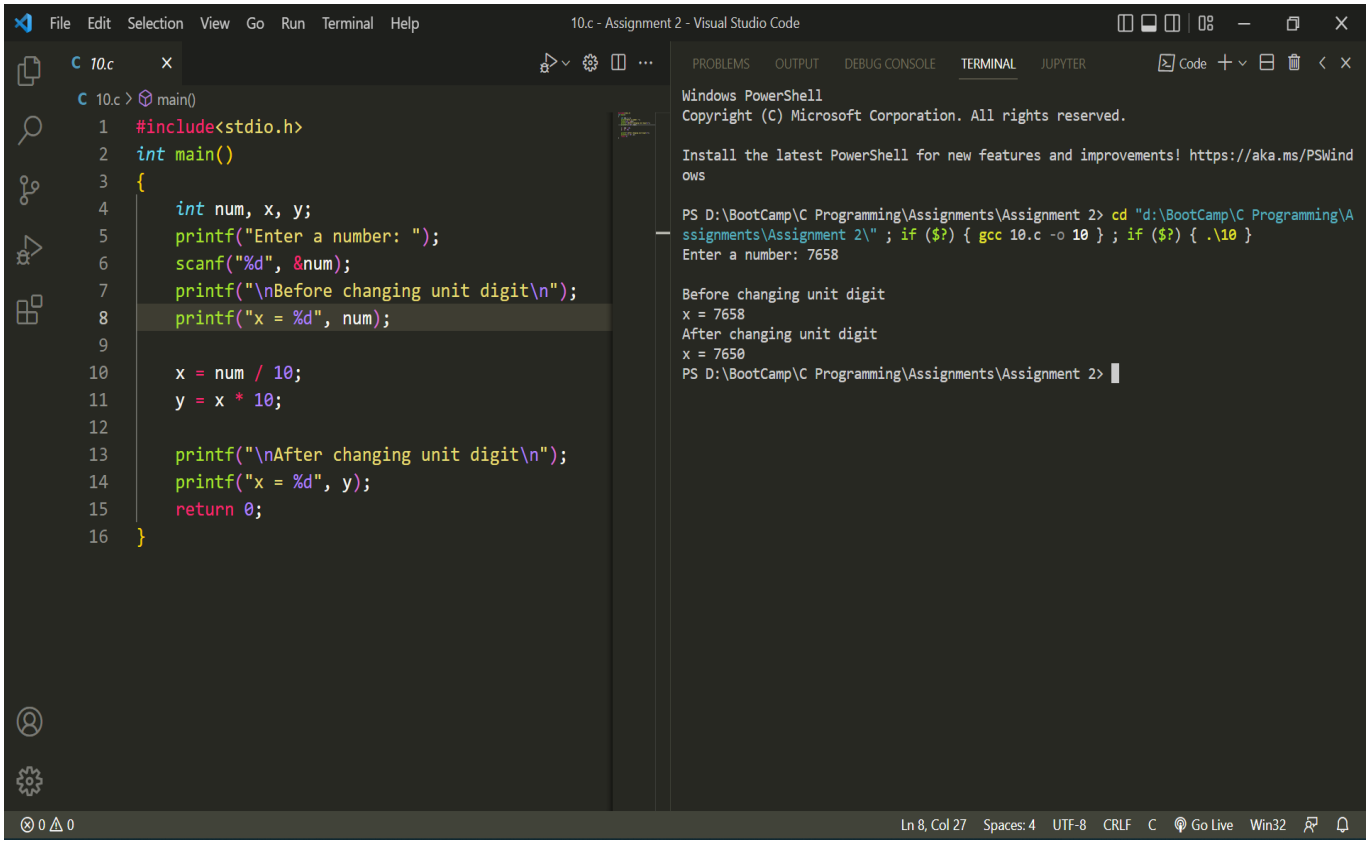
PS D:\BootCamp\C Programming\Assignments\Assignment 2> cd "d:\BootCamp\C Programming\Assignments\Assignment 2\" ; if ($?) { gcc 9.c -o 9 } ; if ($?) { .\9 }
The size of int type variable is: 4
The size of float type variable is: 4
The size of char type variable is: 1
The size of double type variable is: 8
PS D:\BootCamp\C Programming\Assignments\Assignment 2>
0 0
Ln 1, Col 18 Spaces: 4 UTF-8 CRLF C Go Live Win32

Q10.


File Edit Selection View Go Run Terminal Help
10.c - Assignment 2 - Visual Studio Code
10.c
10.c > main()
#include<stdio.h>
int main()
{
int num, x, y;
printf("Enter a number: ");
scanf("%d", &num);
printf("\nBefore changing unit digit\n");
printf("x = %d", num);
x = num / 10;
y = x * 10;
printf("\nAfter changing unit digit\n");
printf("x = %d", y);
return 0;
}
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL JUPYTER
Code
Windows PowerShell
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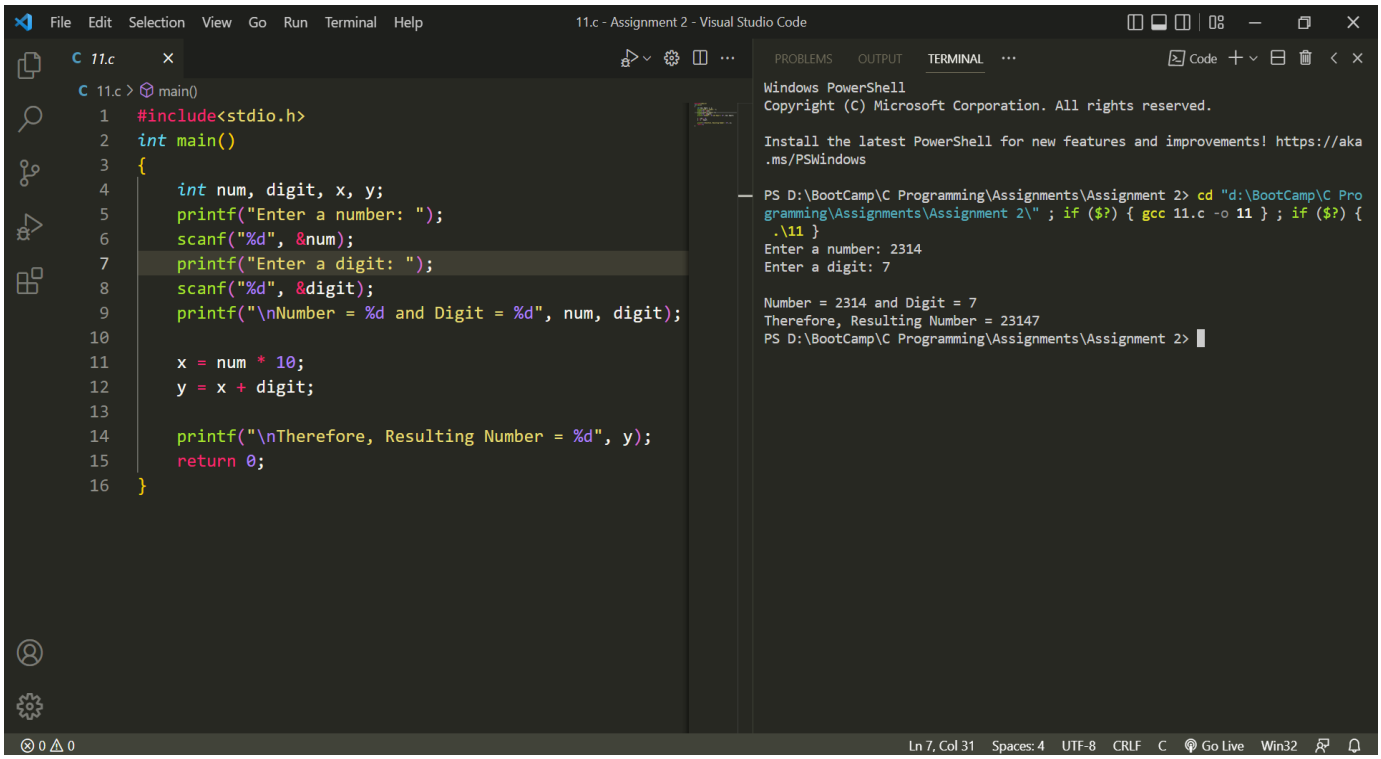
PS D:\BootCamp\C Programming\Assignments\Assignment 2> cd "d:\BootCamp\C Programming\Assignments\Assignment 2\" ; if ($?) { gcc 10.c -o 10 } ; if ($?) { .\10 }
Enter a number: 7658
Before changing unit digit
x = 7658
After changing unit digit
x = 7650
PS D:\BootCamp\C Programming\Assignments\Assignment 2>
0 0
Ln 8, Col 27 Spaces: 4 UTF-8 CRLF C Go Live Win32

Q11.


File Edit Selection View Go Run Terminal Help
11.c - Assignment 2 - Visual Studio Code
11.c
11.c > main()
#include<stdio.h>
int main()
{
int num, digit, x, y;
printf("Enter a number: ");
scanf("%d", &num);
printf("Enter a digit: ");
scanf("%d", &digit);
printf("\nNumber = %d and Digit = %d", num, digit);
x = num * 10;
y = x + digit;
printf("\nTherefore, Resulting Number = %d", y);
return 0;
}
PROBLEMS OUTPUT TERMINAL
Code
Windows PowerShell
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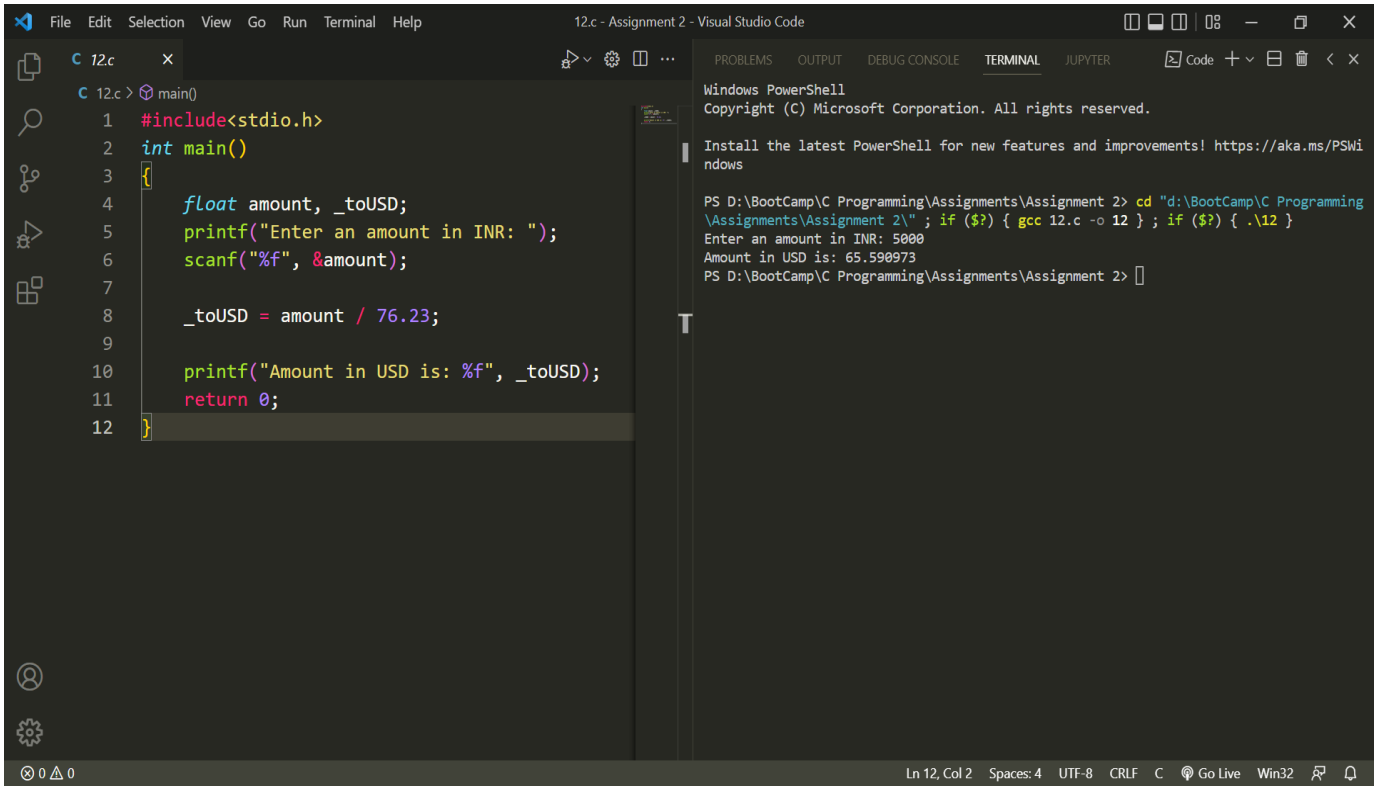
PS D:\BootCamp\C Programming\Assignments\Assignment 2> cd "d:\BootCamp\C Programming\Assignments\Assignment 2\" ; if ($?) { gcc 11.c -o 11 } ; if ($?) { .\11 }
Enter a number: 2314
Enter a digit: 7
Number = 2314 and Digit = 7
Therefore, Resulting Number = 23147
PS D:\BootCamp\C Programming\Assignments\Assignment 2>
0 0
Ln 7, Col 31 Spaces: 4 UTF-8 CRLF C Go Live Win32

Q12.


File Edit Selection View Go Run Terminal Help
12.c - Assignment 2 - Visual Studio Code
12.c
12.c > main()
#include<stdio.h>
int main()
{
float amount, _toUSD;
printf("Enter an amount in INR: ");
scanf("%f", &amount);
_toUSD = amount / 76.23;
printf("Amount in USD is: %f", _toUSD);
return 0;
}
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL JUPYTER
Code
Windows PowerShell
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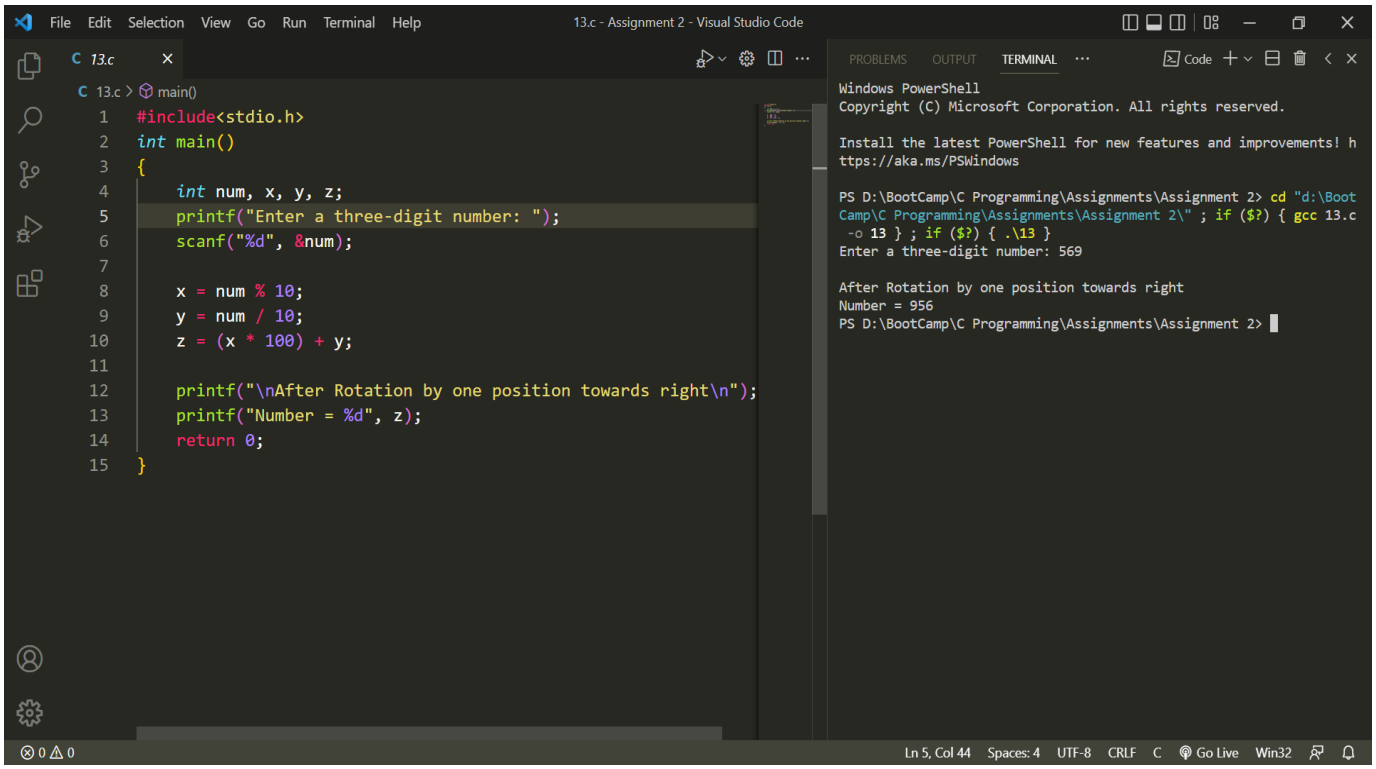
PS D:\BootCamp\C Programming\Assignments\Assignment 2> cd "d:\BootCamp\C Programming\Assignments\Assignment 2\" ; if ($?) { gcc 12.c -o 12 } ; if ($?) { .\12 }
Enter an amount in INR: 5000
Amount in USD is: 65.590973
PS D:\BootCamp\C Programming\Assignments\Assignment 2>
0 0
Ln 12, Col 2 Spaces: 4 UTF-8 CRLF C Go Live Win32

Q13.


File Edit Selection View Go Run Terminal Help
13.c - Assignment 2 - Visual Studio Code
13.c
13.c > main()
#include<stdio.h>
int main()
{
int num, x, y, z;
printf("Enter a three-digit number: ");
scanf("%d", &num);
x = num % 10;
y = num / 10;
z = (x * 100) + y;
printf("\nAfter Rotation by one position towards right\n");
printf("Number = %d", z);
return 0;
}
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Code
Windows PowerShell
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PS D:\BootCamp\C Programming\Assignments\Assignment 2> cd "d:\BootCamp\C Programming\Assignments\Assignment 2\" ; if ($?) { gcc 13.c -o 13 } ; if ($?) { .\13 }
Enter a three-digit number: 569
After Rotation by one position towards right
Number = 956
PS D:\BootCamp\C Programming\Assignments\Assignment 2>
0 0
Ln 5, Col 44 Spaces: 4 UTF-8 CRLF C Go Live Win32