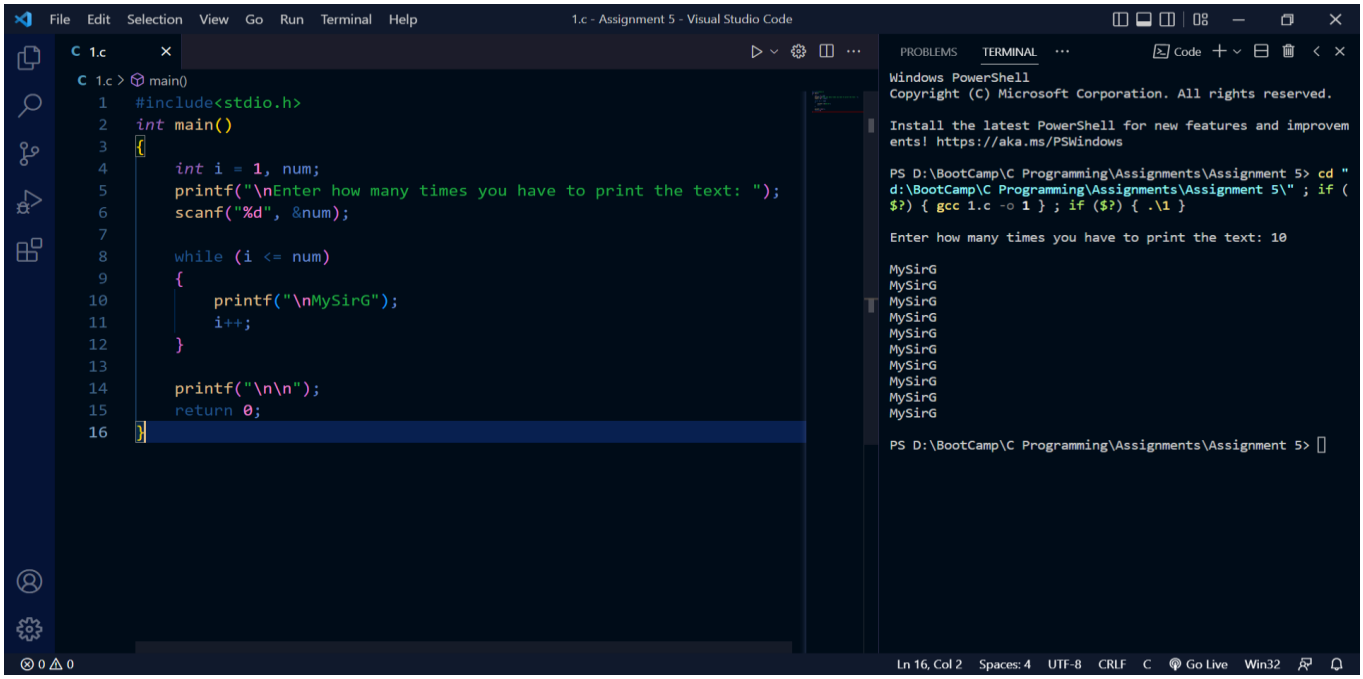
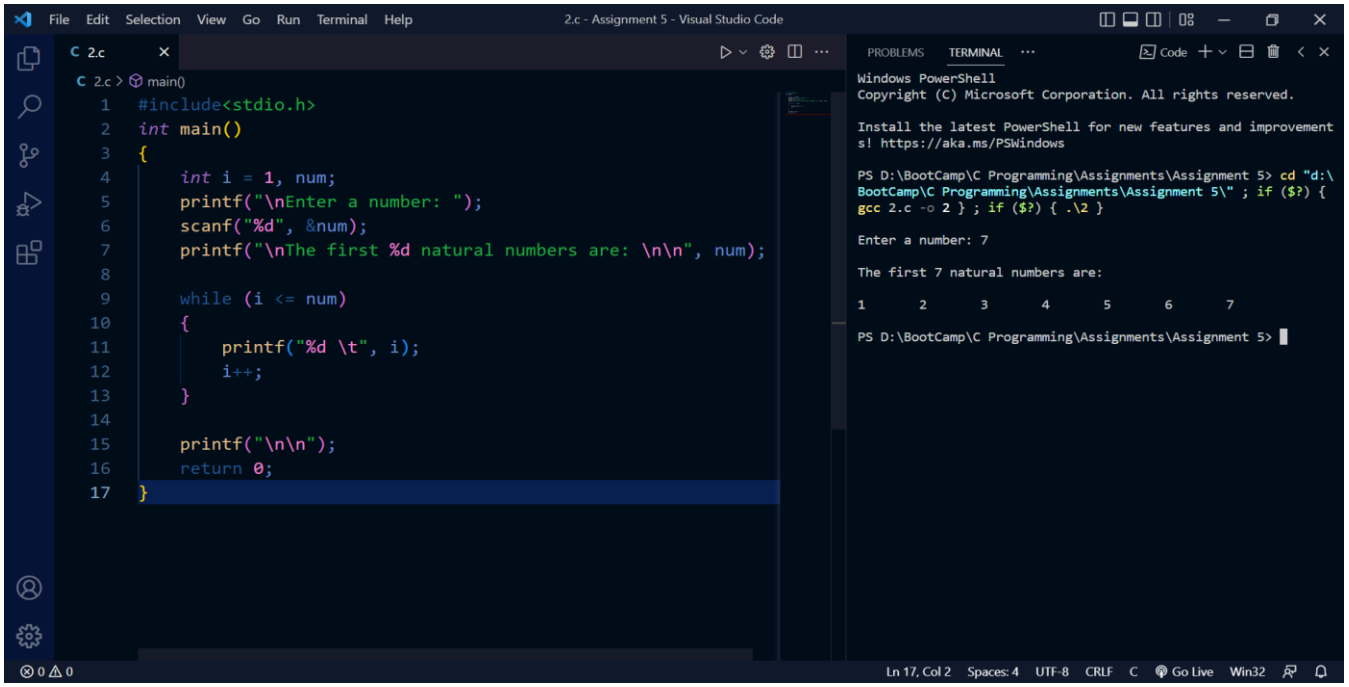
ASSIGNMENT – 05

(Iterative Control Statements – 02)

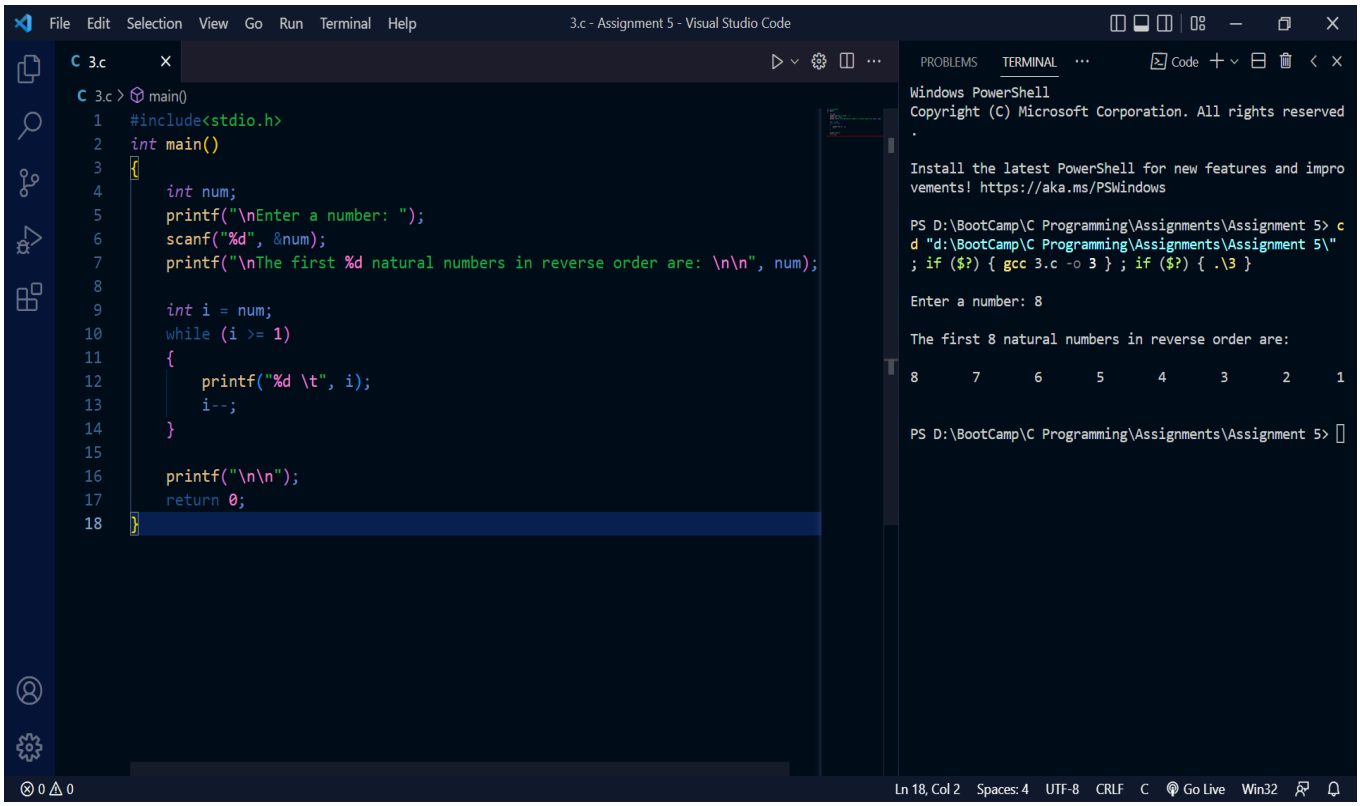
Q1.



Q2.



Q3.


File Edit Selection View Go Run Terminal Help
3.c - Assignment 5 - Visual Studio Code
3.c
3.c > main()
#include<stdio.h>
int main()
{
int num;
printf("\nEnter a number: ");
scanf("%d", &num);
printf("\nThe first %d natural numbers in reverse order are: \n\n", num);
int i = num;
while (i >= 1)
{
printf("%d \t", i);
i--;
}
printf("\n\n");
return 0;
}
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Code
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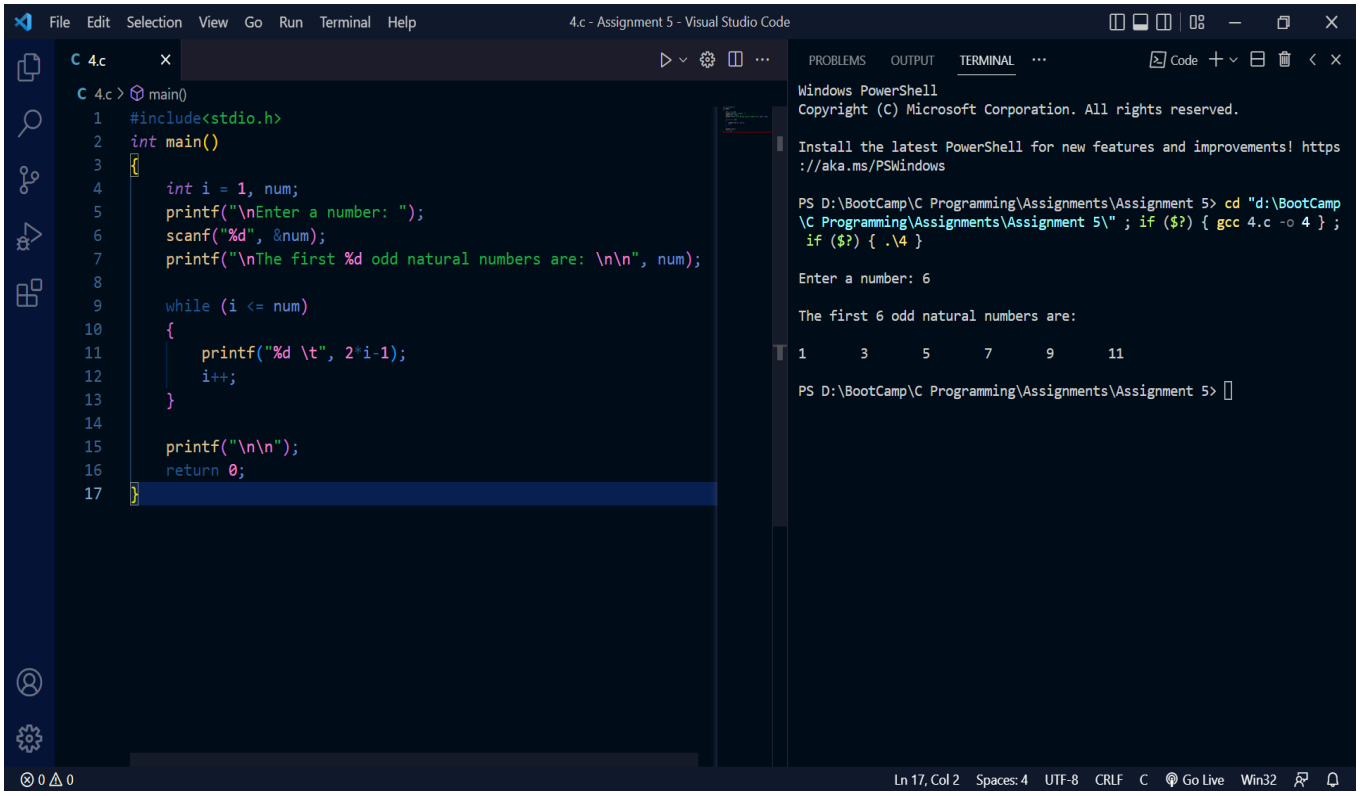
PS D:\BootCamp\C Programming\Assignments\Assignment 5> cd "d:\BootCamp\C Programming\Assignments\Assignment 5\" ; if ($?) { gcc 3.c -o 3 } ; if ($?) { .\3 }
Enter a number: 8
The first 8 natural numbers in reverse order are:
8 7 6 5 4 3 2 1
PS D:\BootCamp\C Programming\Assignments\Assignment 5>
Ln 18, Col 2 Spaces: 4 UTF-8 CRLF C Go Live Win32

Q4.


File Edit Selection View Go Run Terminal Help
4.c - Assignment 5 - Visual Studio Code
4.c
4.c > main()
#include<stdio.h>
int main()
{
int i = 1, num;
printf("\nEnter a number: ");
scanf("%d", &num);
printf("\nThe first %d odd natural numbers are: \n\n", num);
while (i <= num)
{
printf("%d \t", 2*i-1);
i++;
}
printf("\n\n");
return 0;
}
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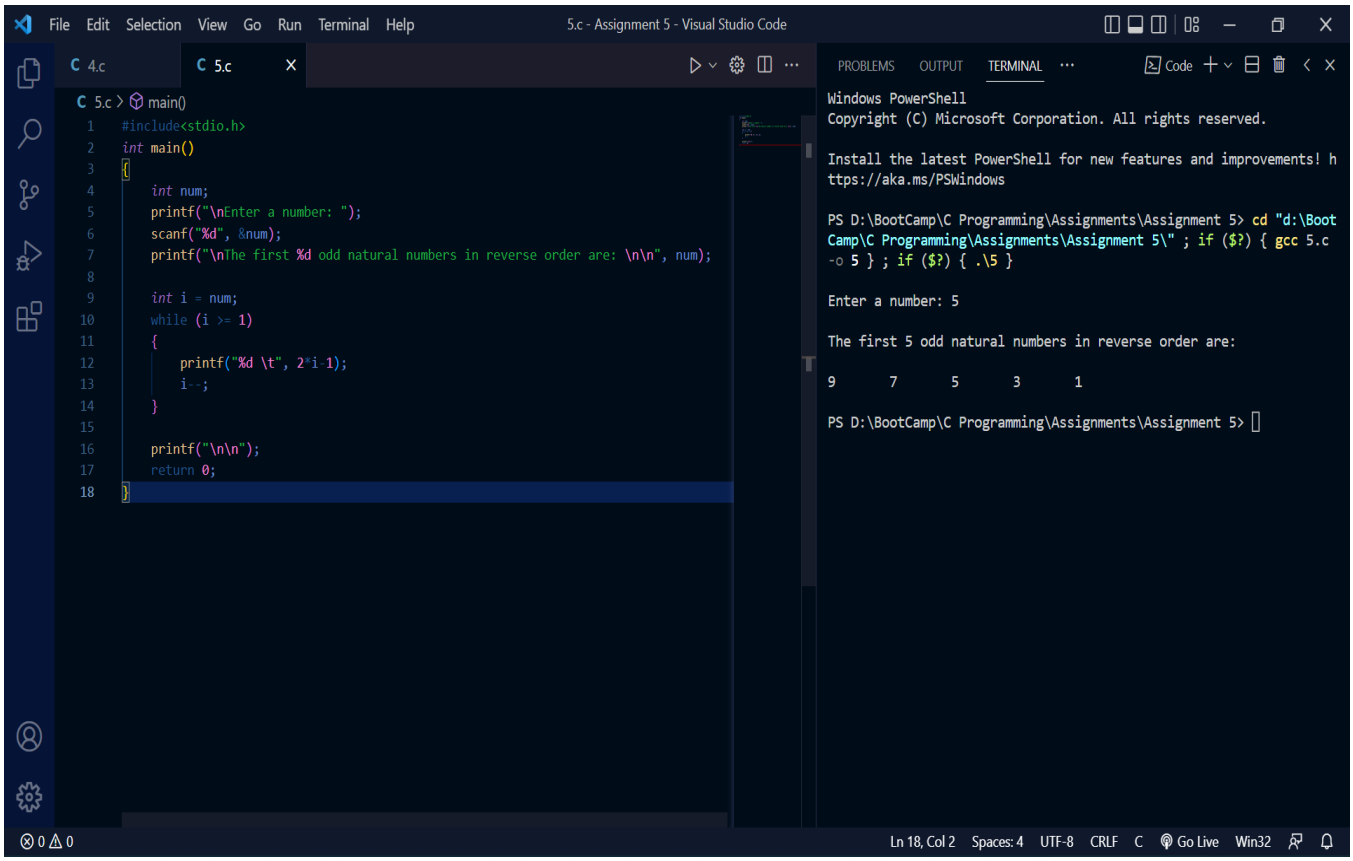
PS D:\BootCamp\C Programming\Assignments\Assignment 5> cd "d:\BootCamp\C Programming\Assignments\Assignment 5\" ; if ($?) { gcc 4.c -o 4 } ; if ($?) { .\4 }
Enter a number: 6
The first 6 odd natural numbers are:
1 3 5 7 9 11
PS D:\BootCamp\C Programming\Assignments\Assignment 5>
Ln 17, Col 2 Spaces: 4 UTF-8 CRLF C Go Live Win32

Q5.


File Edit Selection View Go Run Terminal Help
5.c - Assignment 5 - Visual Studio Code
C 4.c
C 5.c
C 5.c > main()
#include<stdio.h>
int main()
{
int num;
printf("\nEnter a number: ");
scanf("%d", &num);
printf("\nThe first %d odd natural numbers in reverse order are: \n\n", num);
int i = num;
while (i >= 1)
{
printf("%d \t", 2*i-1);
i--;
}
printf("\n\n");
return 0;
}
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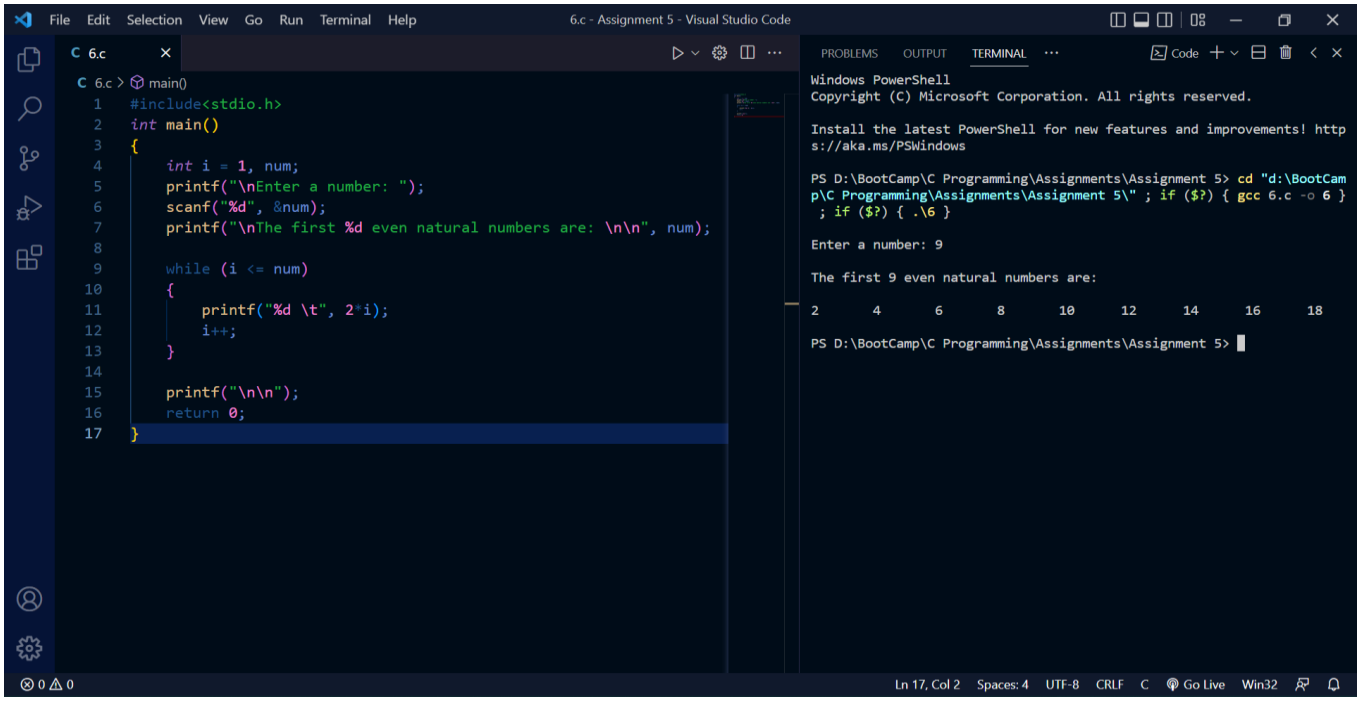
PS D:\BootCamp\C Programming\Assignments\Assignment 5> cd "d:\BootCamp\C Programming\Assignments\Assignment 5\" ; if ($?) { gcc 5.c -o 5 } ; if ($?) { .\5 }
Enter a number: 5
The first 5 odd natural numbers in reverse order are:
9 7 5 3 1
PS D:\BootCamp\C Programming\Assignments\Assignment 5>
0 0
Ln 18, Col 2 Spaces: 4 UTF-8 CRLF C Go Live Win32

Q6.


File Edit Selection View Go Run Terminal Help
6.c - Assignment 5 - Visual Studio Code
C 6.c
C 6.c > main()
#include<stdio.h>
int main()
{
int i = 1, num;
printf("\nEnter a number: ");
scanf("%d", &num);
printf("\nThe first %d even natural numbers are: \n\n", num);
while (i <= num)
{
printf("%d \t", 2*i);
i++;
}
printf("\n\n");
return 0;
}
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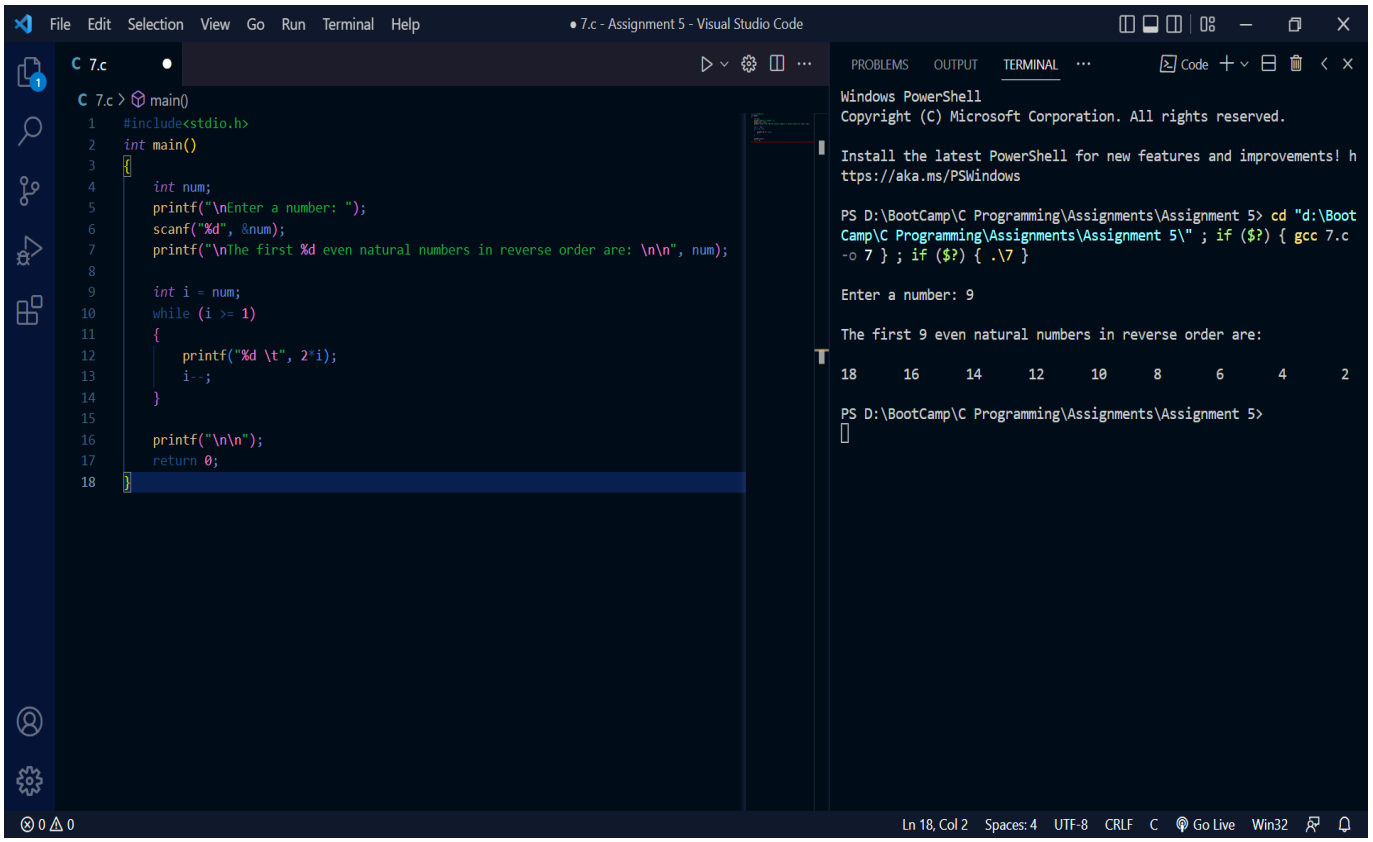
PS D:\BootCamp\C Programming\Assignments\Assignment 5> cd "d:\BootCamp\C Programming\Assignments\Assignment 5\" ; if ($?) { gcc 6.c -o 6 } ; if ($?) { .\6 }
Enter a number: 9
The first 9 even natural numbers are:
2 4 6 8 10 12 14 16 18
PS D:\BootCamp\C Programming\Assignments\Assignment 5>
0 0
Ln 17, Col 2 Spaces: 4 UTF-8 CRLF C Go Live Win32

Q7.


File Edit Selection View Go Run Terminal Help
• 7.c - Assignment 5 - Visual Studio Code
C 7.c
C 7.c > main()
#include<stdio.h>
int main()
{
int num;
printf("\nEnter a number: ");
scanf("%d", &num);
printf("\nThe first %d even natural numbers in reverse order are: \n\n", num);
int i = num;
while (i >= 1)
{
printf("%d \t", 2*i);
i--;
}
printf("\n\n");
return 0;
}
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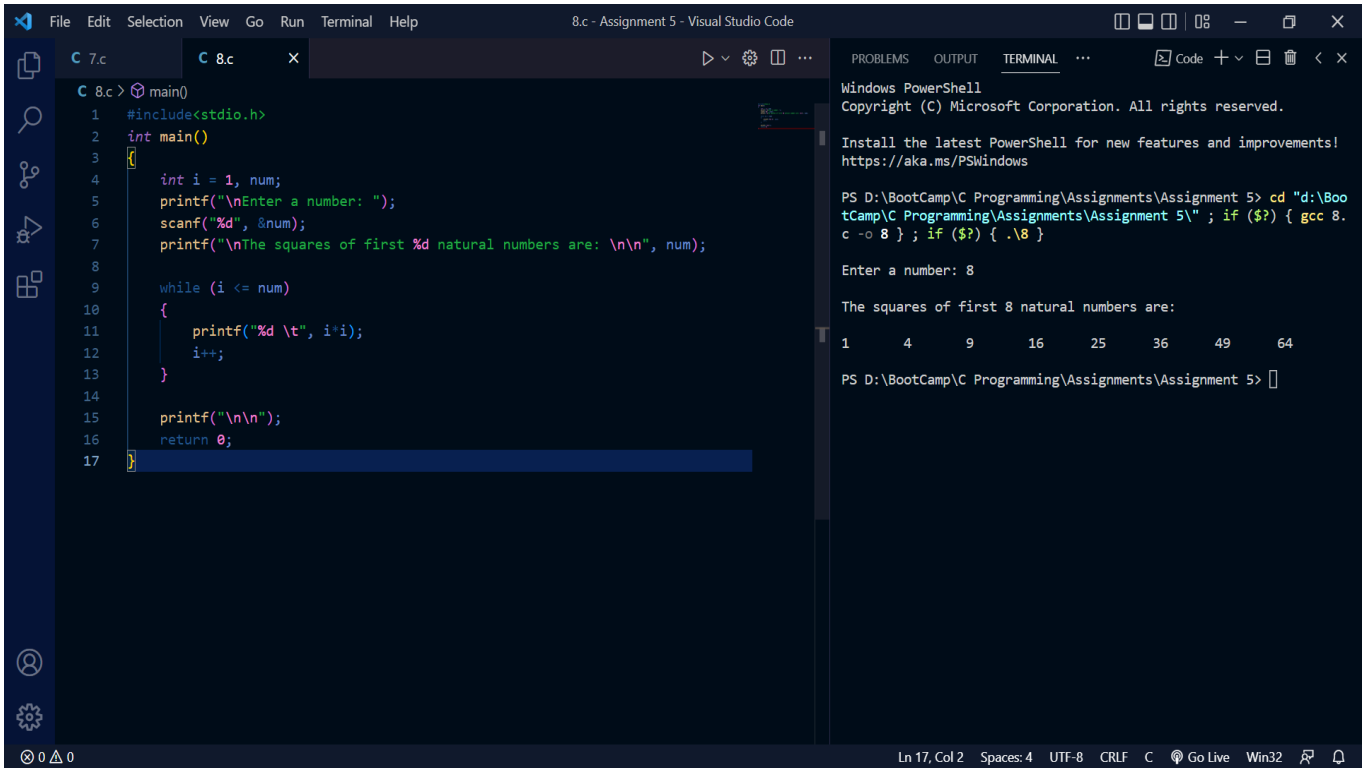
PS D:\BootCamp\C Programming\Assignments\Assignment 5> cd "d:\BootCamp\C Programming\Assignments\Assignment 5\" ; if ($?) { gcc 7.c -o 7 } ; if ($?) { .\7 }
Enter a number: 9
The first 9 even natural numbers in reverse order are:
18 16 14 12 10 8 6 4 2
PS D:\BootCamp\C Programming\Assignments\Assignment 5>
Ln 18, Col 2 Spaces: 4 UTF-8 CRLF C Go Live Win32

Q8.


File Edit Selection View Go Run Terminal Help
8.c - Assignment 5 - Visual Studio Code
C 7.c
C 8.c
C 8.c > main()
#include<stdio.h>
int main()
{
int i = 1, num;
printf("\nEnter a number: ");
scanf("%d", &num);
printf("\nThe squares of first %d natural numbers are: \n\n", num);
while (i <= num)
{
printf("%d \t", i*i);
i++;
}
printf("\n\n");
return 0;
}
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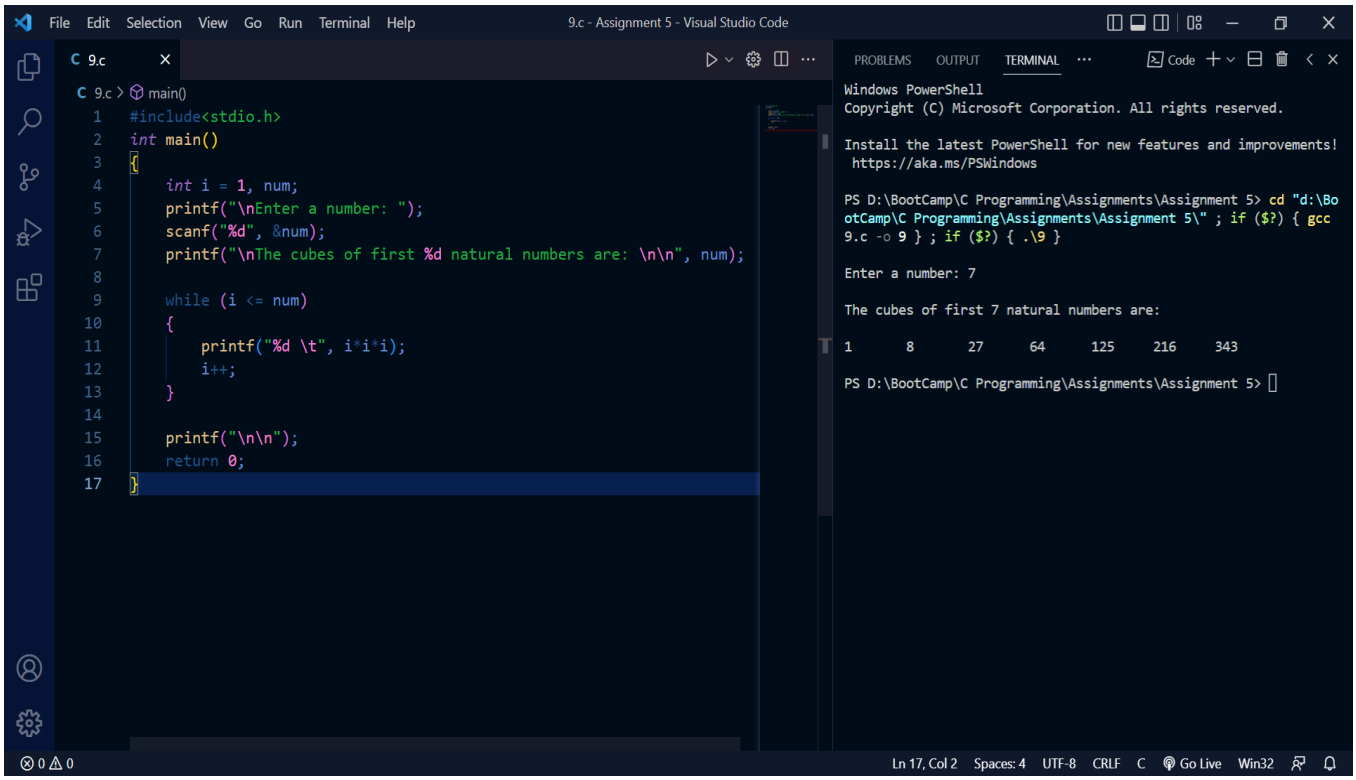
PS D:\BootCamp\C Programming\Assignments\Assignment 5> cd "d:\BootCamp\C Programming\Assignments\Assignment 5\" ; if ($?) { gcc 8.c -o 8 } ; if ($?) { .\8 }
Enter a number: 8
The squares of first 8 natural numbers are:
1 4 9 16 25 36 49 64
PS D:\BootCamp\C Programming\Assignments\Assignment 5>
Ln 17, Col 2 Spaces: 4 UTF-8 CRLF C Go Live Win32

Q9.


File Edit Selection View Go Run Terminal Help
9.c - Assignment 5 - Visual Studio Code
9.c
9.c > main()
#include<stdio.h>
int main()
{
int i = 1, num;
printf("\nEnter a number: ");
scanf("%d", &num);
printf("\nThe cubes of first %d natural numbers are: \n\n", num);
while (i <= num)
{
printf("%d \t", i*i*i);
i++;
}
printf("\n\n");
return 0;
}
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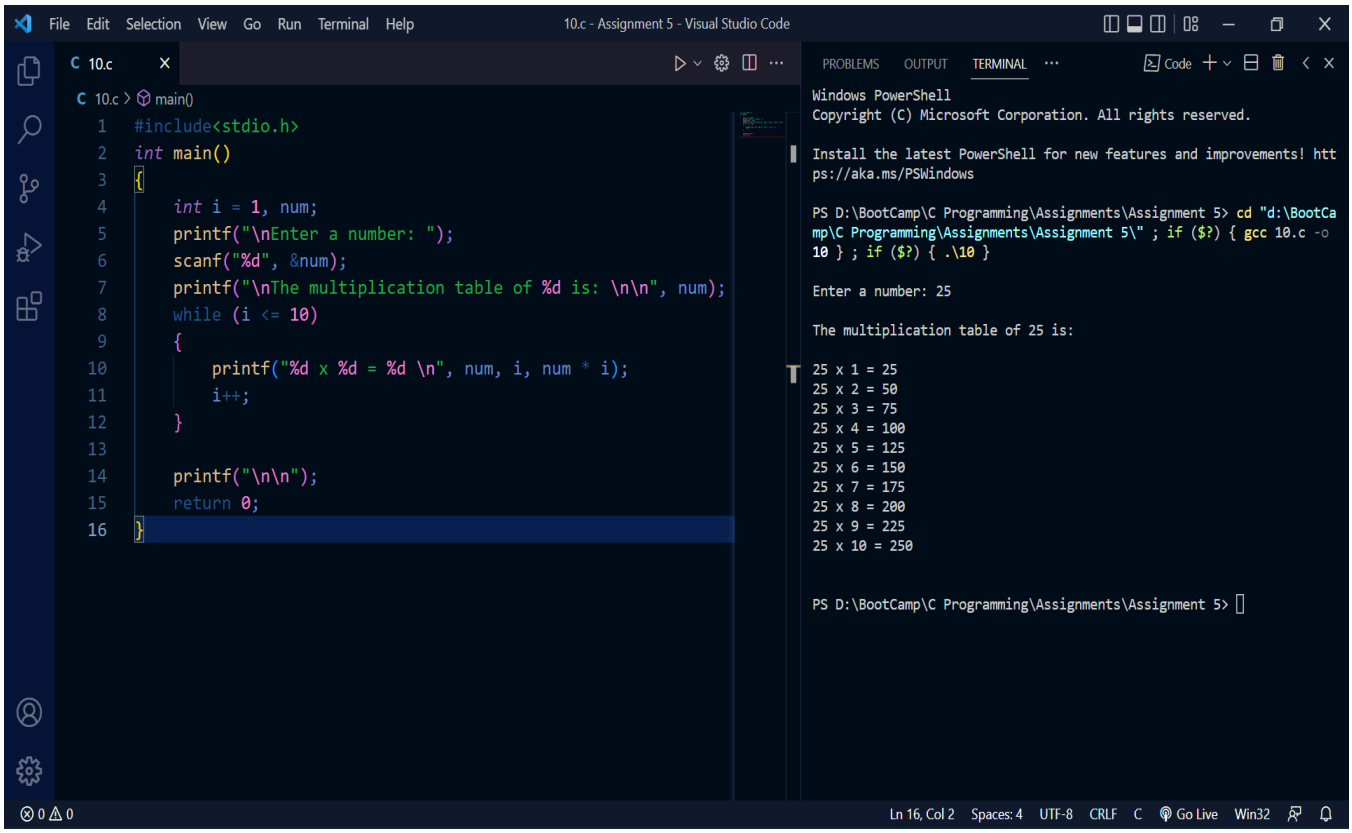
PS D:\BootCamp\C Programming\Assignments\Assignment 5> cd "d:\BootCamp\C Programming\Assignments\Assignment 5\" ; if ($?) { gcc 9.c -o 9 } ; if ($?) { .\9 }
Enter a number: 7
The cubes of first 7 natural numbers are:
1 8 27 64 125 216 343
PS D:\BootCamp\C Programming\Assignments\Assignment 5>
Ln 17, Col 2 Spaces: 4 UTF-8 CRLF C Go Live Win32

Q10.


File Edit Selection View Go Run Terminal Help
10.c - Assignment 5 - Visual Studio Code
10.c
10.c > main()
#include<stdio.h>
int main()
{
int i = 1, num;
printf("\nEnter a number: ");
scanf("%d", &num);
printf("\nThe multiplication table of %d is: \n\n", num);
while (i <= 10)
{
printf("%d x %d = %d \n", num, i, num * i);
i++;
}
printf("\n\n");
return 0;
}
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PS D:\BootCamp\C Programming\Assignments\Assignment 5> cd "d:\BootCamp\C Programming\Assignments\Assignment 5\" ; if ($?) { gcc 10.c -o 10 } ; if ($?) { .\10 }
Enter a number: 25
The multiplication table of 25 is:
25 x 1 = 25
25 x 2 = 50
25 x 3 = 75
25 x 4 = 100
25 x 5 = 125
25 x 6 = 150
25 x 7 = 175
25 x 8 = 200
25 x 9 = 225
25 x 10 = 250
PS D:\BootCamp\C Programming\Assignments\Assignment 5>
Ln 16, Col 2 Spaces: 4 UTF-8 CRLF C Go Live Win32