ITU Faculty of Aeronautics and Astronautics
BIL 110E - Introduction to Programming Language (C)
2018 – 2019 Fall Semester

Midterm Exam

for CRN 12600
November 13, 2018
Instructor: Asst. Prof. Ramazan Yeniceri

Name:	Number:

Solve the given six questions using an online C compiler. You can ask for help from any internet source, however it is strictly banned to request or receive help from your classmates. Always create at least one C code file for each question. All files must be uploaded to Ninova within the Quiz hour.

Question 1 (5 points): Multiple selection statement question.

Write a C program to input a number from the user and check whether it is positive, negative or zero using **switch case** multiple selection statement.

Question 2 (5 points): While repetition question.

Write a program that uses **while** looping to print the following table of values. Use the tab escape sequence, **\t**, in the **printf** statement to separate the columns with tabs.

N	10*N	100*N	1000*N
1	10	100	1000
2	20	200	2000
3	30	300	3000
4	40	400	4000
5	50	500	5000
6	60	600	6000
7	70	700	7000
8	80	800	8000
9	90	900	9000
10	100	1000	10000

Question 3 (5 points): For repetition question.

Write a program that calculates and prints the product of the odd integers from 1 to 15 using **for** loop.

Question 4 (5 points): Function (call by value) question.

Write a program that inputs a series of integers and passes them one at a time to function called **evenCheck**, which uses the **remainder operator** to determine if an integer is even. The function should take an integer argument and return 1 if the integer is even and 0 otherwise. Integers are read from the user and the result will be printed to the terminal.

Question 5 (5 points): Array manuplation question.

Write a program in C to sort elements of the **array** {5, 9, 3, 2} in ascending order.

Question 6 (5 points): Pointer and call by reference function question.

Write a C program to read two integers from user, assign them to **pointers** and pass that pointers to a function called **addTwoPointers**. The function performs addition on these two pointers and assigns the result to the first pointer. Then, the main function prints the result before it ends.

Good luck ;)