Ahsanuliah University of Science and Technology, Bangladesh

CSE 1102: Elementary Structured Programming Lab (Fall 24) Practice Problems, Control Statements (Loops)

SL	Problem statement	
1	Write a C program to print all odd numbers between 1 to n.	
	Input:10	
	Output: 1,3,5,7,9	
2	Write a C program to print all natural numbers in reverse (from n to 1) using a while	
	loop.	
	Input:	
	5	
	Output:	
	5 4 3 2 1	
3	Write a C program to print a multiplication table of any number.	
	Input:5	
	Output:	
	5x1=5	
	5X2=10	
	5X10=50	
4	Write a C program that will print the sum of the following series.	
	1+3++(2n+1)	
	Input 5:	
	Output: 1+3+5+7+9+11 = 36	
5	Print the following series and find the result of the series.	
	Input: 5	
	Output: 1+8+27+64+125 = 225	
6	Print the following series and find the result of the series.	
	Input: 5	
	Output: $1 + 2*4*6 + 3*6*9 + 4*8*12 + 5*10*15 = 1345$	
7	Check whether the given number is prime or not.	
	Input: 20	
	Output: 20 is not a prime number.	
8	Print the Fibonacci Series up to a certain number.	
	(The Fibonacci sequence is a sequence where the next term is the sum of the previous	
	two terms. The first two terms of the Fibonacci sequence are 0 and 1.)	
	Input: 8	
	Output: 0 1 1 2 3 5 8	
9	Write a C program for printing the following pattern :	
	Input:5	
	Output:	
	*	

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10	Write a C program for printing the following pattern:	
	Input:5	
	Output:	
	1	
	22	
	333	
	4444	
	55555	
11	Write a C program for printing the following pattern:	
	Input:5	
	Output:	
	12	
	123	
	1234 12345	
12		
12	Write a C program for printing the following pattern:	
	Input:5	

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	*	
12		
13	Write a C program for printing the following pattern:	
	Input:5	
	*	

14	Write a C program for printing the following pattern :	
	Input:5	

	*		

15		for printing the following pattern :	
13	Input:5	for printing the following pattern.	
	Output:		
	*		

	¥		
16		for printing the following pattern :	
	Input:5		
			l .
	Output:		
	1		
	1 2 3 2		
	1 2 3 2 3 4 5 4 3		
	1 2 3 2		
17	1 232 34543 4567654 567898765 Write a C program	for printing the following pattern :	
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17	1 232 34543 4567654 567898765 Write a C program Input:5 Output:	for printing the following pattern :	
17	1 232 34543 4567654 567898765 Write a C program Input:5 Output: A BB	for printing the following pattern :	
17	1 232 34543 4567654 567898765 Write a C program Input:5 Output: A BB CCC	for printing the following pattern :	
17	1 232 34543 4567654 567898765 Write a C program Input:5 Output: A BB	for printing the following pattern :	
17	1 232 34543 4567654 567898765 Write a C program Input:5 Output: A BB CCC DDDD EEEEE DDDD	for printing the following pattern :	
17	1 232 34543 4567654 567898765 Write a C program Input:5 Output: A BB CCC DDDD EEEEE DDDD CCC	for printing the following pattern :	
17	1 232 34543 4567654 567898765 Write a C program Input:5 Output: A BB CCCC DDDD EEEEE DDDD CCCC BB	for printing the following pattern :	
	1 232 34543 4567654 567898765 Write a C program Input:5 Output: A BB CCC DDDD EEEEE DDDD CCC BB A		
17	1 232 34543 4567654 567898765 Write a C program Input:5 Output: A BB CCC DDDD EEEEE DDDD CCCC BB A Write a C program	for printing the following pattern : for printing the following pattern :	
	1 232 34543 4567654 567898765 Write a C program Input:5 Output: A BB CCC DDDD EEEEE DDDD CCC BB A		

123456	5789							
12349	1234567							
8912	89123							
456	5							
7								
Letter	ASCII Code	Binary	Letter	ASCII Code	Binary			
a	097	01100001	Α	065	01000001			
b	098	01100010	В	066	01000010			
С	099	01100011	С	067	01000011			
d	100	01100100	D	068	01000100			
е	101	01100101	E	069	01000101			
f	102	01100110	F	070	01000110			
g	103	01100111	G	071	01000111			
h	104	01101000	Н	072	01001000			
i	105	01101001	I	073	01001001			
j	106	01101010	J	074	01001010			
k	107	01101011	K	075	01001011			
- 1	108	01101100	L	076	01001100			
m	109	01101101	М	077	01001101			
n	110	01101110	N	078	01001110			
О	111	01101111	О	079	01001111			
р	112	01110000	P	080	01010000			
q	113	01110001	Q	081	01010001			
r	114	01110010	R	082	01010010			
s	115	01110011	S	083	01010011			
t	116	01110100	Т	084	01010100			
u	117	01110101	U	085	01010101			
v	118	01110110	V	086	01010110			
w	119	01110111	w	087	01010111			
×	120	01111000	X	880	01011000			
у	121	01111001	Υ	089	01011001			
z	122	01111010	Z	090	01011010			