ISTANBUL AYDIN UNIVERSITY

Name, Surname Number	:		
Course Code Course Name	: : Computer Programming I		
Exam Date	: Ouiz :22.11.2013	Midterm	Final

Please make sure to write your name and student number on each paper that you have used

Question Number	1	2	3	4	5	Total
Mark						

Note: Exam duration is 60 minutes only.

Questions

1-(30p) Given the following C	· · · ·		
program:What is the output from an			
<pre>execution of this C program? #include <stdio.h></stdio.h></pre>	$\pi = 4 - \frac{4}{3} + \frac{4}{5} - \frac{4}{7} + \frac{4}{9} - \frac{4}{11} + \cdots$		
<pre>int main(void){</pre>	3 5 7 9 11		
int i, j, n = $6i$			
char a = ``; /* for space*/	Print a table that shows the value of approximated		
for $(i = 1; i <= n; i++)$	by one term of this series, by two terms, by three		
	terms, and so on.		
printf("*");	Output:		
if (i == n)	Accuracy set at: 40		
	term pi		
a = `*`;	1 4.000000		
$\left(\begin{array}{c} \alpha \end{array}\right)$	2 2.666667		
for $(j = 2; j < i; j++)$	3 3.466667		
	4 2.895238		
printf("%c", a);	5 3.339683		
}	6 2.976046		
j if (i != 1)	7 3.283738		
{	8 3.017072		
<pre>printf("*");</pre>	•••		
	•••		
<pre>printf("\n");</pre>	•••		
}	40 3.116597		
return 0;			
}	5-(30p) (Hollow Square of Asterisks) Write a program		
2-(10p)(Diameter, Circumference and Area	that reads in the side of a square and then prints		
of a Cirle) Write a program that reads	that square out of asterisks. Your program should work		
the radius of a circle (as a float value)	for squares of all side sizes between 1 and 20.so that		
and computes and prints the diameter, the	itprints a hollow square. For example, if your program		
circumference and the area. Use the value	reads a size of 5, it should print		
3.14159 for .	****		
	* *		
3-(20p)Write a program that evaluates the	* *		
factorials of the integers from keyboard	* *		

Yrd.Doç.Dr. Oğuz Ata