**Mini exam 3**

**Name and Neptun code: ……………………………………………………………………………………**

1. What are the possible values for "unsigned char"? (Please remember size of char is 1 Byte)

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1. What are the possible values for "signed char"?

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1. Complete the following code. Please use the most abbreviated assignment operators.

#include <stdio.h>

int main(void)

{

int x=4;

int y=5;

int result;

//increment x by y

…………………………………………………….

//decrement y by 2

……………………………………………………….

//multiply y times x giving result

……………………………………………………..

//decrement result by 2

…………………………………

//increment result by result

………………………………..

//assign result modulo result to y

……………………………………

//increment result by y added to x

…………………………………………………………….

printf("result: %d\n", result);

return 0;

}

**Output of program:**

…………………………………………………………………………………………….

1. A program which adds two big positive integers and produces a result which is negative! Explain what happens! (Don’t write program, just explain here.)

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### Assignment Operators in C

~~~{.c}

n = 3

n += 3 n = (n + 3)

n -= 3 n = (n - 3)

n \*= 3 n = (n \* 3)

n /= 3 n = (n / 3)

n %= 3 n = (n % 3)

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- What is the 8-bits two's complement representation of 13?

- Write as many literals as possible which yield the value 13!

Write a program which adds two positive integers and produces a

result which is negative! Explain what happens!