lame:	Student ID:	Date:
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#### Worksheet 9

# for... statement

# Objectives

After completing this worksheet, you should be able to

- Understand the concept of repetition control structures
- Comprehend the usage of *for...* statement
- Appreciate the usage of *break* and *continue* statement
- 1. Open a new project, write program 9.1.

```
#include <stdio.h>
int main(int argc, char *argv[ ])
{
    int x;
    for(x = 1; x <= 10; x++) {
        printf("x = %d \n",x);
    }
    return 0;
}</pre>
```

Program 9.1

2. Run Program 9.1 and record the results in Table 9.1.

Results from				
Step #1.	Step #3.			

Table 9.1

- >
3).
number between 1-100
.).

6. Opent a new project and write Program 9.3.

```
#include <stdio.h>
int main(int argc, char *argv[])
{
     float Count;
     for(Count = 5; Count > 0; Count-=0.5) {
         printf("%5.2f",Count);
     }
     return 0;
}
```

#### Program 9.3

Then run the program and record the results.

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7. Opent a new project and write Program 9.4.

```
#include <stdio.h>
int main(int argc, char *argv[])
{
    int i;
    for(i = 1; i <= 10; i++) {
        if ( i == 5 ) {
            printf("This number is wonderful");
            break;
        }
        printf("i = %d \t", i);
    }
    return 0;
}</pre>
```

Program 9.4

Then run the program and record the results.

Onent :	new project and write Program 9.5.	
	e <stdio.h></stdio.h>	
	(int argc, char *argv[ ]) {	
	int a, b;	
	for(a = 2; a <= 5; a++) {	
	for(b = 1; b <= 3; b++) {	
	printf("a = %d\t b = %d\t a + b = %d\n",a, b, a+b);	
	}	
	printf("\n************\n\n");	
	}	
	return 0;	
	Program 9.5	
	Program 9.5	
	Program 9.5 program and record the results.	
Run the		

From Program 9.5, modify the program to print multiplication tables for 2 – 12				

Name:	 Student ID:	Date:

### Homework 9

1. Write a program that displays the summation of 1 to a number entered by user through the keyboard. Given that the program must show user interface and results as follows:

Please enter an integer number: 5 -> Suppose that user enters 5.

The summation of 1 to 5 is 15  $\rightarrow$  (1 + 2 + 3 + 4 + 5 = 15)

2. Write a program that accepts an integer value from the keyboard and stores it in the variable n. Then the program will calculate the factorial of non-negative integer n, denoted by n!. The factorial function is formally defined by:

$$n! = n*(n-1)*(n-2)*...*3*2*1,$$
 which  $0! = 1$