

Name: _____

Activity 4

1. Write a C program that prints out the name, value, address, and size of a variable of each of the following types:
 - a. int
 - b. float
 - c. string
 - d. struct (with at least one integer and one array)
 - e. integer pointer (point to the int you defined in step a)
 - f. string pointer (point to the string you defined in step c)
 - g. pointer to a struct (point to the struct you defined in step d)Then, print out the values of the int and struct you defined using pointers to access the data.

2. Rewrite the following program using pointers instead of array indexing.

```
#include<stdio.h>
#include<string.h>
int main () {
    int n=0, len;
    char str[ ] = "This is a string.";
    len = strlen(str);
    for( n=0; n<len; n++)
        putc(str[n], stdout);
    printf("\nn = %d\n", n);
}
```