# LAB SHEET 7b

## STRINGS

1. Type in, compile and run the following program

```c
#include <stdio.h>

int main() {
char name[20];
printf("%ld",sizeof(name));
    return 0;
}
```

2. Type in, compile and run the following program

```c
#include <stdio.h>

int main() {
char name[20]="S2 ME A";
printf("%ld",sizeof(name));
    return 0;
}
```

3. Type in, compile and run the following program

```c
#include <stdio.h>

int main() {
char name[20]="S2 ME A";
printf("%ld",sizeof(name));
    return 0;
}
```

4. Type in, compile and run the following program

```c
#include <stdio.h>

int main() {
    char str[]="Hello";
    printf("\n %s", str);
    printf("\n %s", &str);
    printf("\n %s", &str[2]);
    return 0;
}
```

5. Type in, compile and run the following program

```c
#include <stdio.h>

int main() {
    char name[20];
    printf("\n Enter your name including your last name or initials :");
    scanf("%s",name);
    printf("\nName :");
    printf("%s",name);
    return 0;
}
```

6. Type in, compile and run the following program

```c
#include <stdio.h>

int main() {
    char name[20];
    printf("\n Enter your name including your last name or initials :");
    scanf("%[^\n]",name);
    printf("\n Name :");
    printf("%s",name);
    return 0;
}
```

7. Write a program to read in a string and display the count of vowels in the string.

8. Write a program to convert characters of a string to upper case.
   [*Note: Recall that ASCII code for A-Z varies from 65 to 91 and the ASCII code for a-z ranges from 97 to 123*]