

Lab#4

Exercise #1: Warm Up

Write an assembly program that prompts the user for a character, and then for an integer. The program then prints out "The character entered was: " followed by the character, and "The integer entered was: " followed by the integer. Match the example shown below, where user input is shown in bold face:

```
Enter a character: a
Enter an integer: 12
The character entered was: a
The integer entered was: 12
```

You may assume that the user will always enter a valid number followed by a valid character (no need to deal with errors, etc.).

Exercise #2:

Write an assembly program that prompts the user to type a 5-character string. The program reads the first 5 characters of that string and prints two strings. The first string contains the 5 characters entered by the user, but in reverse order. The second string contains the 5 characters entered by the user, but whose ASCII code has been decremented by 32. Match the example shown below, where user input is shown in bold face:

```
Enter a 5-character string: hguot
String #1: tough
String #2: HGUOT
```

You may assume that the user will always type exactly 5 characters followed by a carriage return (no need to deal with errors, etc.).