Lab 07

Exercises

1. Write an assembly language program that prints the character "A" (along with a string message) on the screen using a user-defined procedure and calls that procedure in the main procedure, like shown below:

   ```
   The character displayed using procedure is: A
   ```

2. Write an assembly language program that prints the character "A" in the main procedure, character "B" in a user-defined procedure, and character "C" in the main again after returning from the user-defined procedure, like shown below:

   ```
   The character displayed in the main procedure is: A
   The character displayed using procedure is: B
   The character displayed in the main procedure is: C
   ```

3. Write an assembly language program that takes a character as input in the main procedure and prints in inside a user-defined procedure, as shown below:

   ```
   Inside the main procedure. Enter a character: G
   The character displayed using procedure is: G
   ```

4. Write an assembly language program that displays the numbers from 0 to 9 using a loop inside a user-defined procedure, as shown below:

   ```
   The numbers displayed using procedure are: 0123456789
   ```

5. Write an assembly language program that takes two numbers as and an operator as input in the main procedure, then performs the respective operation in a user-defined procedure, and finally prints the result in the main procedure, as shown below:
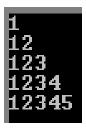
   Case 1

   ```
   Enter a numer: 4
   Enter a numer: 3
   Enter the operator (+ or -): +
   The reuslt is: 7
   ```

   Case 2

   ```
   Enter a numer: 8
   Enter a numer: 5
   Enter the operator (+ or -): -
   The reuslt is: 3
   ```

6. Write an assembly language program that prints the following output using a user-defined procedure:

```
1
12
123
1234
12345
```

7. Write an assembly language program that prints the following output using a user-defined procedure:

```
1
22
333
4444
55555
```

8. Write an assembly language program that takes two numbers as input in the main procedure. Then, it checks which one of them is the greater number and prints that result (that which one is greater) in a user-defined function, as shown below:

Case 1

```
Enter first number: 6
Enter second number: 4
6 the first number is greater.
```

Case 2

```
Enter first number: 4
Enter second number: 7
7 the second number is greater.
```