Student Name:	Lab 8

Write a MIPS program to perform the following tasks:

- Initialize the following symbols in your data section:
  - **a = 0**
  - **b = 10**
  - **c = 5**
  - **d = 9**
  - **e = 7**
- Ask the user to enter a value for k.
- Load the values for a-e from memory into registers
- Implement code equivalent to this if/elseif/else statement:

```
if (k == 0) {
 a = b + c;
elseif (k == 1) {
 a = d + e;
elseif (k == 2) {
 a = d – e;
elseif (k == 3) {
 a = b – c;
else {
 a = 0;
}
```

- After your calculation in registers, store the value of **a** back into the proper memory location.
- Print the value of **a** from the memory location (not the register).

Example output - 1:

```
Please enter a value for k:0
The value of a is: 15
```

Example output - 2:

```
Please enter a value for k:2
The value of a is: 2
```

The following is required for all assignments and is included in the rubric for grading:

- You need to name your file as "LastName-Name-Lab8.asm" (Example: Talley-Michelle-Lab8.asm)
- You may use utils.asm, but you must name it LastName-FirstName-utils.asm and include it with your submission in a **zipfile**.
- Your program will need to have the exact output unless otherwise stated.
- Your source needs to have comments/pseudo code that explains your implementation.
- You need to include the following set of comments at the top of your source code for all assignments.
  #Your Name
  #Assignment # (Example: Lab #8)
- You need to submit your source code on blackboard.