Practical-9 Aim Using SPIM, writeand testan adding machine program that repeatedly reads in integers and adds them into a running sum. The program should stop when itgets an input that is 0, printingout the sum at that point. .data prompt1: .asciiz"\n\n Enter the firstinteger please:" prompt2: .ascii Enter the second integer please:" result: ascitte resultis:" text main: #t0- to hold firstinteger #t1- to hold second integer #t2- used to hold the sum of t\$1 and t\$2 #firstnumber lisvo, 4 #syscall to printstring la\$a0, prompt1 #address of stringto print syscall

| l\$v0, 5 #syscall to read an integer |
|---|
| syscall |
| move \$t0, \$v0 #move the number to read into\$t0 |
| #second number |
| Li\$v0, 4 |
| la\$aO, prompt2 |
| syscall |
| _# |
| L\$v0,5 |
| syscall |
| move \$t1,\$v0 |
| # |
| #print out sum of \$t2 |
| li\$v0, 4 |
| la\$a0, result |
| syscall |
| # |
| add \$a0, \$t1, \$t0 #compute the sum |
| l\$v0, 1 |
| syscall |
| # |
| " l.\$ν0, 10 |
| syscall |
| |
| Output |
| Virgair |

| Enter the firstintegerplease & |
|----------------------------------|
| Enter the second integerplease 4 |
| The resultis 10 |
| |
| |
| |
| |
| |
| |
| |
| |
| |
| |
| |
| |
| |
| |
| |
| |
| |
| |
| |
| |
| |