```
#Chuong trinh: switch-case
#------------------------------
          .include   "macro.mac"
#Data segment
          .data
#Cac dinh nghia bien
int_a:     .word      0
int_b:     .word      100
int_c:     .word      2
int_in:    .word      0
#Cac cau nhac nhap du lieu
nhap_in:  .asciiz    "Nhap input: "
xuat_a:   .asciiz    "a = "
daungan:  .asciiz    "\n-----------------------\n"
#------------------------------
#Code segment
          .text
#------------------------------
# Chuong trinh chinh
#------------------------------
main:
#Nhap (syscall)
  #Nhap intput
          geti_p     nhap_in,int_in
#Xu ly
  # t0=input/a, t1=case_values, t2=b, t3=c
          lw         $t0,int_in
          lw         $t2,int_b
          lw         $t3,int_c
  #switch (input)
          addi       $t1,$zero,1
          beq        $t0,$t1,case1
          addi       $t1,$zero,2
          beq        $t0,$t1,case2
          addi       $t1,$zero,3
          beq        $t0,$t1,case3
          addi       $t1,$zero,4
          beq        $t0,$t1,case4
          j          default
  #case 1:          val=1 a=b+c
case1:    add        $t0,$t2,$t3
          sw         $t0,int_a
          j          end_sw                #break
  #case 2:          val=2 a=b-c
case2:    sub        $t0,$t2,$t3
          sw         $t0,int_a
          j          end_sw
  #case 3:          val=3 a=b*c
case3:    mul        $t0,$t2,$t3
          sw         $t0,int_a
          j          end_sw
  #case 4:          val=4 a=b/c
case4:    div        $t2,$t3
          mflo       $t0
```

```
            sw          $t0,int_a
            j           end_sw
    #default:
default:    sw          $zero,int_a
end_sw:
#Xuat ket qua (syscall)
            puti_p      xuat_a,int_a
# do-while(1)
            puts        daungan
            j           main
#ket thuc chuong trinh (syscall)
Kthuc:      addi        $v0,$zero,10
            syscall
#-----------------------------
```