CODE:

```
.data
num: .word 11,12,13,14,15
new: .asciiz "\n"
index: .asciiz "Value of array index"
is: .asciiz "is "
string1: .asciiz " ["
string2: .asciiz "] "

i:.word 0

.text
.globl main
main:

lw $t5, i
li $t1,0
li $t2,5
li $t3, 10
la $t0, num #load base address

Loop:
beq $t1,$t2, exit

lw $t4,($t0)

mul $t4, $t4, $t3

li $v0,4
la $a0, index
syscall
```

```
li $v0, 4
la $a0, string1
syscall


li, $v0, 1
move $a0, $t5
syscall


li $v0, 4
la $a0, string2
syscall


li $v0, 4
la $a0, is
syscall


    move $a0, $t4
     syscall


li $v0, 4
la $a0, new
syscall


addi $t1, $t1, 1
addi $t0, $t0, 4
addi $t5, $t5, 1


b Loop
```

exit:

li $v0, 10

 syscall

OUTPUT:

```
Value of array index [0] is 110
Value of array index [1] is 120
Value of array index [2] is 130
Value of array index [3] is 140
Value of array index [4] is 150
```

CODE:

.data

suffa: .asciiz " DHA Suffa "

string: .asciiz " \nString after reverse = "

.text

.globl main

main:

la $a0, suffa

li $v0, 4

syscall

la $a0, string

li $v0, 4

syscall

li $t2, 0

loop:

lb $t1, suffa($t2)

```
add $t2, $t2, 1


bne $t1, 0, loop

sub $t2, $t2, 1


print:


li $v0, 11

la $t1, suffa($t2)

lb $a0, ($t1)

syscall


sub $t2, $t2, 1

bne $t2, 0, print


li $v0, 10

syscall
```

OUTPUT:

```
 DHA Suffa
String after reverse =  affuS AHD
```