

Code:-

```
%macro display 2
mov rax,1
mov rdi,1
mov rsi,%1
mov rdx,%2
syscall
%endm
```

```
global _start
```

```
section .data
```

;Taking input from user

```
arr db 11h,22h,33h,44h,55h,66h
msg db "source array is:"
msg_len equ $-msg
```

```
msg1 db "destination array is:"
msg1_len equ $-msg1
```

```
section .bss
```

```
arr1 resb 6
arr_ascii resb 14h
arr1_ascii resb 14h
```

```
section .text
_start:
```

```
mov rsi,arr
mov rdi,arr1
```

```
mov cl,06
up: mov al,[rsi]
mov [rdi],al
```

```
inc rsi
inc rdi
dec cl
jnz up
```

```
display msg,msg_len
mov rsi,arr
```

```
mov rdi,arr_ascii
```

```
call print
display arr_ascii,14h
```

```
mov rax,60
mov rdi,0
syscall
```

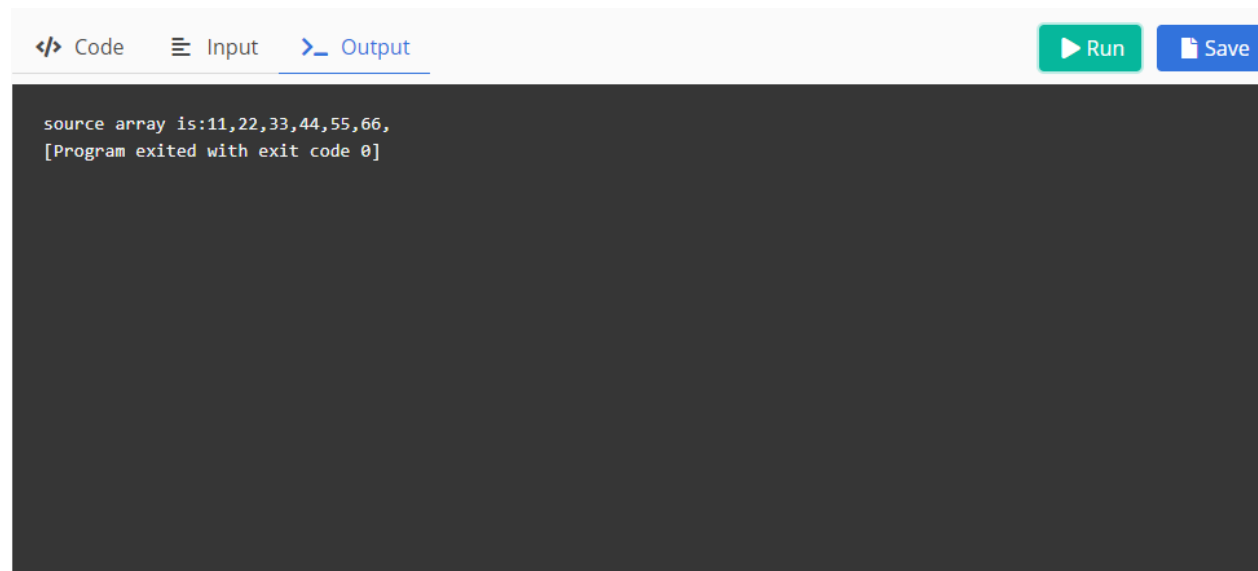
```
print:
```

```
mov ch,06
up2: mov al,[rsi]
mov cl,02
```

```
up1: rol al,4
mov bl,al
and al,0fh
cmp al,09
ja add37
add al,30h
jmp dn2
add37: add al,37h
dn2: mov [rdi],al
inc rdi
mov al,bl
dec cl
jnz up1
mov [rdi],byte','
inc rdi
```

```
inc rsi
dec ch
jnz up2
ret
```

Output:-

A screenshot of a web-based code editor interface. At the top, there are three tabs: 'Code' (selected), 'Input', and 'Output'. To the right of the tabs are two buttons: 'Run' (green) and 'Save' (blue). The main area shows the output of a program, which is the text 'source array is:11,22,33,44,55,66,' followed by '[Program exited with exit code 0]' on the next line. The background of the editor is dark gray.

```
source array is:11,22,33,44,55,66,
[Program exited with exit code 0]
```

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