

# Code:-

---

```
global _start
```

```
section .data
```

```
array1 db 10h,09h,05h,9Ah,65h
```

```
;Taking input from user
```

```
count db 4
```

```
msg db "Largest number is :"
```

```
msg_len equ $-msg
```

```
section .bss
```

```
var1 resb 1
```

```
largest resb 2
```

```
section .text
```

```
_start:
```

```
mov rsi,array1
```

```
mov al,[rsi]
```

```
up: inc rsi
```

```
mov ah,[rsi]
```

```
cmp al,ah
```

```
jna dn
```

```
    dec byte[count]
```

```
    jnz up
```

```
    jmp ext
```

```
dn:
```

```
    mov al,ah
```

```
    dec byte[count]
```

```
    jnz up
```

```
    jmp ext
```

```
ext:
```

```
mov byte[var1],al
```

```
mov rax,1
mov rdi,1
mov rsi,msg
mov rdx,msg_len
syscall
```

```
mov rsi,largest
```

```
mov al,byte[var1]
```

```
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 [rsi],al
inc rsi
mov al,bl
dec cl
jnz up1
```

```
mov rax,1
mov rdi,1
mov rsi,largest
mov rdx,2
syscall
```

```
mov rax,60
mov rdi,0
Syscall
```

---

# Output:-

```
Code Input Output Run Save
```

```
Largest number is :9A  
[Program exited with exit code 0]
```

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**Nikhil Vinod Khodake**  
**9022**  
**SE Computer**  
**MP Assignments**