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**Class Roll No:** 66

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**Subject:** Assembly Language

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```
; Program to print an array using loop
```

```
.model small  
.stack 100h  
.data  
array db 'a','b','c'  
.code
```

```
Main Proc
```

```
Mov ax, @data  
Mov ds, ax
```

```
Mov si, offset array  
Mov cx, 3
```

```
Loop1:  
Mov dx, [si]  
Mov ah, 2  
inc si  
INT 21h  
Loop Loop1  
Mov ah, 4ch  
INT 21h
```

```
Main endp  
End Main
```

```
; String, Program to input a string
```

```
.model small  
.stack 100h  
.data
```

```
var1 db 100 dup('$')
.code

Main Proc

Mov ax, @data
Mov ds, ax
Mov si, offset var1

Loop1:
Mov ah, 1
INT 21h
cmp al, 13
je programend
Mov [si], al
inc si
jmp Loop1

programend:
Mov dx, offset var1
Mov ah, 9
INT 21h
Mov ah, 4ch
INT 21h

Main endp
End Main
```