Name: Muhammad Ahmed Baig

Roll Number: 20i-1884

**Section B** 

## Task1

.model small

.stack 1024

.data

arr1 dw 0,0,0,0,0

var1 dw?

temp dw?

.code

main proc

mov ax, @data

mov ds, ax

mov si, 0

mov cx, 5

input:

mov ah, 01h

int 21h

cmp al, 13

JE stopper

sub al, 48

mov ah, 0

mov temp, ax

mov ax, 0

mov ax, arr1[si]

mov bl, 10

mul bl

add ax, temp

mov arr1[si], ax

```
jmp input
stopper:
add si, 2
loop input
mov ah, 4ch
int 21h
main endp
end main
```

```
C:\>ml q1_s.asm
Microsoft (R) Macro Assembler Version 6.11
Copyright (C) Microsoft Corp 1981-1993. All rights reserved.

Assembling: q1_s.asm

Microsoft (R) Segmented Executable Linker Version 5.31.009 Jul 13 1992
Copyright (C) Microsoft Corp 1984-1992. All rights reserved.

Object Modules [.obj]: q1_s.obj
Run File [q1_s.exel: "q1_s.exe"
List File Inul.mapl: NUL
Libraries [.libl:
Definitions File [nul.def]:

C:\>q1_s.exe

Go to Settings
to activate

Windows.

C:\>
```

## Task2

.model small

.stack 1024

.data

arr1 dw 0,0,0,0,0

temp dw?

.code

main proc

mov ax, @data

mov ds, ax mov ax, 0 mov bx, 1 mov cx, 5 11: push cx mov cx, bx 12: mov dx, '\*' mov ah, 02h int 21h loop I2 mov dx, 10 mov ah, 02h int 21h mov dx, 13 mov ah, 02h int 21h inc bx рор сх loop I1 mov ah, 4ch

int 21h

main endp

end main

```
Run File [q1_s.exe]: "q1_s.exe"
List File [nul.map]: NUL
Libraries [.lib]:
Definitions File [nul.def]:

C:\>q1_s.exe
*
**
***
***
***
C:\>
```

## Task3

```
.model small
```

.stack 1024

.data

arr1 dw 0,0,0,0,0

temp dw?

.code

main proc

mov ax, @data

mov ds, ax

mov ax, 0

mov bx, 5

mov cx, 5

11:

push cx

mov cx, bx

12:

mov dx, '\*'

mov ah, 02h

int 21h

```
loop I2
mov dx, 10
mov ah, 02h
int 21h
mov dx, 13
mov ah, 02h
int 21h
dec bx
рор сх
loop I1
mov ah, 4ch
int 21h
main endp
end main
XXXX
C:\>ml q1_s.asm
Microsoft (R) Macro Assembler Version 6.11
Copyright (C) Microsoft Corp 1981–1993. All rights reserved.
 Assembling: q1_s.asm
Microsoft (R) Segmented Executable Linker Version 5.31.009 Jul 13 1992
Copyright (C) Microsoft Corp 1984-1992. All rights reserved.
                                                                      Activate
Object Modules [.obj]: q1_s.obj
Run File [q1_s.exe]: "q1_s.exe"
List File [nul.map]: NUL
Libraries [.lib]:
                                                                      Windows
Definitions File [nul.def]:
                                                                      Go to Settings
C:\>q1_s.exe
                                                                      to activate
```

Windows.

## Task4

.model small

.stack 1024

.data .code main proc mov ax, @data mov ds, ax mov dx, 0 mov bx, 0 mov cx, 26 mov bl, 'A' 11: mov dl, bl mov ah, 02h int 21h inc bl mov dx, 0 loop I1 mov ah, 4ch int 21h main endp end main

```
C:\\q1_s.exe
*****

****

***

**

C:\\ml q1_s.asm
Microsoft (R) Macro Assembler Version 6.11
Copyright (C) Microsoft Corp 1981-1993. All rights reserved.

Assembling: q1_s.asm

Activate

Microsoft (R) Segmented Executable Linker Version 5.31.009\Jul 13.1992
Copyright (C) Microsoft Corp 1984-1992. All rights reserved.

Object Modules [.obj]: q1_s.obj
Run File [q1_s.exe]: "q1_s.exe"
List File Inul.mapl: NUL
Libraries [.lib]:
Definitions File Inul.def]:

C:\\q1_s.exe

Activate

Windows.

C:\\q1_s.exe
```