

TASK 1

.model small

.STACK

.DATA

.code

mov cx,10

mov dx,48

l1:

mov ah,02

int 21h

inc dx

loop l1

mov dx,57

mov cx,10

l2:

mov ah,02

int 21h

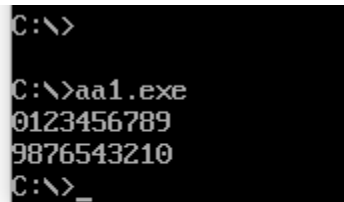
dec dx

loop l2

MOV AH,4ch

INT 21h

END



C:\>
C:\>aa1.exe
0123456789
9876543210
C:\>_

TASK 2:

.model small

.STACK

.DATA

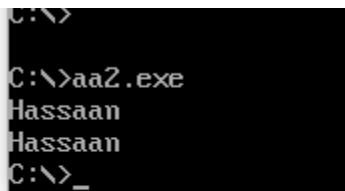
```
str1 DB 'Hassaan$'  
arr db 'H','a','s','s','a','a','n'
```

```
.CODE  
MOV AX,@DATA  
MOV DS,AX  
mov dx,offset str1  
mov ah,09  
int 21h
```

```
mov dl,10  
mov ah,02h  
int 21h
```

```
mov si,offset arr  
mov cx,7  
mov dx,[si]  
l1:  
mov ah,02  
int 21h  
inc si  
mov dx,[si]  
loop l1
```

```
MOV AH,4ch  
INT 21h  
END
```



TASK 3:
.model small

.STACK

.DATA

```
str1 DB 'Hassan$'  
.CODE  
MOV AX,@DATA  
MOV DS,AX
```

```
mov si,offset str1  
mov cx,7  
l1:  
mov dx,[si]  
push dx  
inc si  
loop l1  
mov cx,7  
l2:  
pop dx  
mov ah,02  
int 21h  
loop l2
```

```
MOV AH,4ch
```

```
INT 21h
```

```
END
```



```
C:\>  
C:\>aa3.exe  
naassaH  
C:\>_
```

TASK 4:

```
.model small
```

```
.STACK
```

```
.DATA  
digi db 0  
antc db 0  
entc db 0  
entn dw 0  
temp1 dw 0  
.code  
MOV AX,@DATA  
MOV DS,AX  
input:
```

```
mov ah,01h
int 21h
cmp al,13
je here
sub al,48
mov ah,0
mov temp1,ax
mov ax,0
mov ax,entn
mov bl,10
mul bl
add ax,temp1
mov entn,ax
inc digi
loop input
here:
mov bx,entn
```

```
cmp bx,80
jae labA
cmp bx,76
jae labB
cmp bx,71
jae labC
cmp bx,66
jae labD
jb labF
```

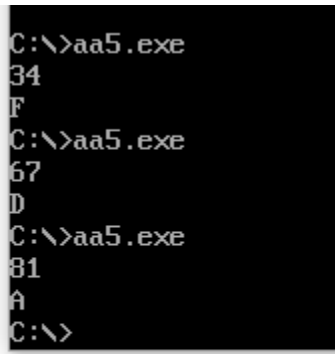
```
jmp labB
```

```
labA:
mov dl,'A'
mov ah,02h
int 21h
jmp exit
labB:
mov dl,'B'
mov ah,02h
int 21h
jmp exit
labC:
mov dl,'C'
mov ah,02h
int 21h
jmp exit
```

```

labD:
mov dl,'D'
mov ah,02h
int 21h
jmp exit
labF:
mov dl,'F'
mov ah,02h
int 21h
jmp exit
exit:
mov ah, 4ch
int 21h
end

```



```

C:\>aa5.exe
34
F
C:\>aa5.exe
67
D
C:\>aa5.exe
81
A
C:\>

```

```

.model small
.stack 100h
.data

msg1 db 'Enter two digit number : $'
msg2 db 'even$'
msg3 db 'odd$'

digitCount db 0
enteredNumber dw 0
temp1 dw 0

.code

mov ax,@data
mov ds,ax

mov ax,0
mov bx,0
mov cx,0

```

```
mov dx,0
```

```
lea dx, msg1  
mov ah,09h  
int 21h
```

Input:

```
mov ah,01  
int 21H
```

```
cmp al,13  
JE output
```

```
sub al,48  
mov ah,0
```

```
mov temp1,ax
```

```
mov ax,0
```

```
mov ax,enteredNumber
```

```
mov bl,10
```

```
mul bl  
add ax,temp1
```

```
mov enteredNumber,ax  
inc digitCount
```

```
jmp Input
```

output:

```
mov ax , enteredNumber  
mov bl , 2  
div bl
```

```
mov al, ah  
cmp al , 0  
je nume  
jmp numo
```

nume:

```
mov dx, offset msg2
mov ah, 09h
int 21h
```

```
jmp exit
```

```
numo:
```

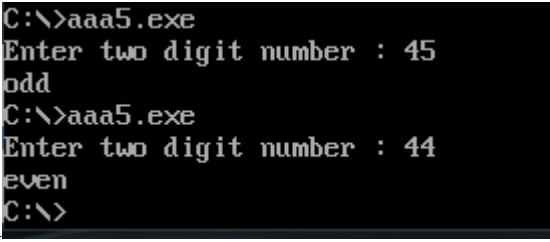
```
mov dx, offset msg3
mov ah, 09h
int 21h
```

```
jmp exit
```

```
exit:
```

```
mov ah, 4ch
int 21h
```

```
end
```



```
C:\>aaa5.exe
Enter two digit number : 45
odd
C:\>aaa5.exe
Enter two digit number : 44
even
C:\>
```