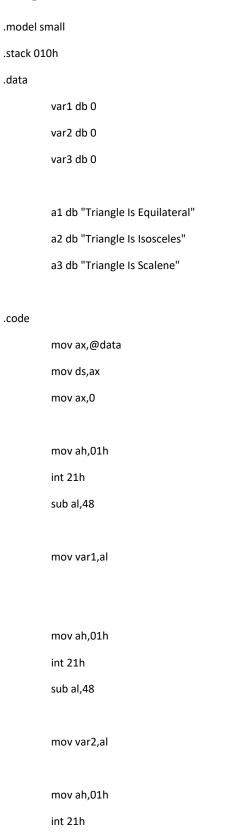
TASK 1



```
sub al,48
       mov var3,al
mov cl,var2
       cmp var1,cl
       je check1
       mov cl,var3
       cmp var2,cl
       je check2
       cmp cl,var1
       je check2
       mov cx,lengthof a3
       mov si,offset a3
13:
       mov dl,[si]
       mov ah,02h
       int 21h
       inc si
```

```
jmp exit
check1:
       mov cl,var3
       cmp var2,cl
       jne check2
       mov cx,lengthof a1
       mov si,offset a1
11:
       mov dl,[si]
       mov ah,02h
       int 21h
       inc si
loop l1
       jmp exit
check2:
       mov cx,lengthof a2
       mov si,offset a2
12:
       mov dl,[si]
       mov ah,02h
```

int 21h

inc si	
loop I2 jmp exit	
exit:	
mov ah,4ch	
int 21h	
end	
TASK 05	
.MODEL SMALL	
.STACK 100H	
.DATA	
STAR DB ?	
BLANK DB ?	
.CODE	
MAIN PROC	
mov ah,01h	
int 21h	

mov ah,0

1:	
PUSH CX	
2:	
MOV AH,2	
MOV DL,32	
INT 21H	
LOOP L2	
MOV CX,BX	
3:	
MOV AH,2	
MOV DL,'*'	
INT 21H	
LOOP L3	
MOV AH,2	

mov cx,ax

MOV BX,1

INC BX	
INC BX	
POP CX	
LOOP L1	
DEC al	
MOV CX,ax	
MOV BH,7	
MOV BL,2	
MOV STAR,BH	
MOV BLANK,BL	

MOV DL,10

MOV DL,13

INT 21H

INT 21H

JE L5		
MOV AH,2		
MOV DL,32		
INT 21H		
DEC BLANK		
;CMP BLANK,0		
JMP L4		
L5:		
MOV AH,2		
MOV DL,'*'		
INT 21H		
DEC STAR		
CMP STAR,0		

L4:

CMP BLANK,0

L6:		
MOV AH,2		
MOV DL,10		
INT 21H		
MOV DL,13		
INT 21H		
DEC BH		
DEC BH		
MOV STAR,BH		
INC BL		
MOV BLANK,BL		

JNE L5

EXIT:

MOV AH,4CH

INT 21H

MAIN ENDP

END MAIN

TASK 03

.model small

.stack 100h

.data

val1 db 0

val2 db 0

val3 db 0

result db 0

.code

main proc

mov ax, @data

mov ds, ax

mov ax, 0

sub ax,48	
mov val1,al	
mov ah,01h	
int 21h	
mov ah,0	
sub ax,48	
mov val2,al	
mov ah,01h	
int 21h	
mov ah,0	
;sub ax,48	
mov val3,al	
cmp val3,2bh	
je addd	
cmp val3,2ah	
je mulll	
2000 vol 2 2 db	
cmp val3,2dh	
je subbb	
cmp val3,2fh	
je divvv	
Je divvv	

mov ah,01h

int 21h

mov ah,0

addd:
call addition
jmp exit
subbb:
call subtraction
jmp exit
mulli:
call multiplication
jmp exit
divvv:
call division
jmp exit
main endp
addition proc
mov bl,val1
mov cl,val2
add bl,cl
mov result,bl
mov dl,result
add dl,48
mov ah,02h
int 21h
ret
jmp exit
addition endp
•

subtraction proc
mov bl,val1

mov cl,val2
sub bl,cl
mov result,bl
mov dl,result
add dl,48
mov ah,02h
int 21h
ret
jmp exit
subtraction endp
multiplication proc
mov ah,0
mov al,val1
mov bl,val2
mul bl
mov result,al
mov dl,result
add dl,48
mov ah,02h
int 21h
ret
jmp exit
multiplication endp
division proc
mov al,val1
mov bl,val2
div bl
mov result,bl
mov dl,result
add dl,48
mov ah,02h

int 21h
ret
jmp exit
division endp

exit:

mov ah,4ch

int 21h

end

TASK 02

.model small

.stack 100h

.data

.code

jmp main

sum proc

mov cl, bl

mov bx, 0

mov bl, 2

div bl

cmp ah, 0

je J

dec cl

J:

mov ax, 0
mov bx, 0
L:
add bl, cl
dec cx
loop L
ret
sum endp
main proc
mov ax, @data
mov ds, ax
mov ax, 0
mov ah, 01h
int 21h
mov ah, 0
sub al, 48
mov bl, 10
mul bl
mov bl, al
mov ax, 0
mov ah, 01h
int 21h

sub al, 48 add bl, al mov ax, 0 mov al, bl call sum mov ax, 0 mov al, bl mov bx, 0 mov bl, 100 div bl mov cl, ah mov dl, al add dl, 48 mov ah, 02h int 21h mov bx, 0 mov al, cl mov ah, 0 mov bx, 0 mov bl, 10 div bl mov cl, ah mov dl, al add dl, 48

mov dl, cl	
add dl, 48	
mov ah, 02h	
int 21h	
mov ah, 4ch	
int 21h	
main endp	
end	
TASK 06	
.model small	
.stack 100h	
.data	
arr db 10h,9,5,20h,4	
.code	
code	
mov ax, @data	

mov ah, 02h

int 21h

mov si, offset arr
mov cx, 5
mov bl, [si]
L1:
cmp [si], bl
jge large
comp:
inc si
loop L1
add bl, 48
mov dl, bl
mov ah, 2
int 21h
large:
mov bl, [si]
jmp comp
, r r