

```
.model small
```

```
.stack 100h
```

```
.data
```

```
.code
```

```
main proc
```

```
    mov ax, @data
```

```
    mov ds, ax
```

```
    ; Step 1: Load three numbers into registers
```

```
    mov bp, 5    ; First number 5 in bp
```

```
    mov si, 10   ; Second number 10 in si
```

```
    mov dx, 15   ; Third number 15 in dx
```

```
    ; Step 2: Push the numbers onto the stack
```

```
    push bp      ; Push first number 5
```

```
    push si      ; Push second number 10
```

```
    push dx      ; Push third number 15
```

```
    ; Step 3: Pop the numbers from the stack and add them
```

```
    pop dx       ; Pop the third number 15 into dx
```

```
    pop si       ; Pop the second number 10 into si
```

```
    pop bp       ; Pop the first number 5 into bp
```

```
    ; Add the three numbers
```

```
    add bp, si   ; Add bp 5 and si 10, result in bp 15
```

```
add bp, dx    ; Add bp 15 and dx 15, result in bp 30
```

```
; Step 4: Push the result onto the stack
```

```
push bp      ; Push the result 30 onto the stack
```

```
mov ah, 4Ch
```

```
int 21h
```

```
main endp
```

```
end main
```