Control Instructions

- Controls the flow of the program
- Based on "events" e.g. calculation led to 0
- Uses flags to determine decision
- Branching
 - Output
 Unconditional JMP
 - compare it with the GOTO statement in C
 - Conditional Jxx
 - JZ (Jump on zero)
 - JNZ (Jump on not Zero)
 - JA
 - JAE
 - JC
 - JNC
 - o Uses Flags.

CODE:

```
push rax ; To maintain Rax Original value Otherwise infinte loop will
happen
   ; print on screen
   mov rax, 1
   mov rdi, 1
   mov rsi, message
   mov rdx, mlen
   syscall
   pop rax ; to pop rax previous(original value)
   dec rax ; Rax --
   jnz PrintHW ; Jump if not zero
   ; exit gracefully
   mov rax, 60
   mov rdi, 11
   syscall
section .data
   message: db "Hello World! ", 0x0a
   mlen equ $-message
```