

## Assignment

```
a = 4
```

```
.BeginProgram
```

```
lw $0, 4
```

```
PS D:\Escuela\Semestre_8\Compiladores\GitHubClass\CompilersClass\basicEs>
```

## Declaration

```
int a
```

```
.BeginProgram
```

```
lw $0, 0
```

```
PS D:\Escuela\Semestre_8\Compiladores\GitHubClass\CompilersClass\basicEs>
```

## IF ELSE

```
int a
if p == 2 {
    a = 4
} else {
    2 + 2
    print 20
}
```

```
.BeginProgram
```

```
lw $0, 0
```

```
IF
```

```
eq $2, $3 j ELSE
```

```
lw $0, 4
```

```
lw $4, 2
```

```
lw $5, 2
```

```
ADD $6, 2, 2
```

```
lw 20
```

```
syscall
```

```
ENDIF
```

```
PS D:\Escuela\Semestre_8\Compiladores\GitHubClass\CompilersClass\basicEs>
```

## ARITHMETIC

```
= input.txt
1  2 + 3
2
```

```
.BeginProgram
lw $0, 2
lw $1, 3
ADD $2, 3, 2
PS D:\Escuela\Semestre_8\Compiladores\GitHubClass\CompilersClass\basicEs> █
```

## COMPARATION

```
if p == 2 {
```

```
eq $2, $3
```

## PRINT

```
≡ input.txt
1  print 10
2
```

```
PS D:\Escuela\Semestre_8\Compiladores\GitHubClass\CompilersClass\basicEs> & C
.BeginProgram
lw 10
syscall
PS D:\Escuela\Semestre_8\Compiladores\GitHubClass\CompilersClass\basicEs> █
```