

در این فصل با ذکر مثال، به مقایسه نحوه کدنویسی در F# با استفاده از دو نوع سبک Lightweight و Verbose می‌پردازیم.

استفاده از expression ها

```
//Lightweight

<expression1>
<expression2>

//Verbose
<expression1>; <expression2>
```

استفاده از let های تودرتو

```
//Lightweight

let f x =
    let a = 1
    let b = 2
    x + a + b

//Verbose

let f x =
    let a = 1 in
    let b = 2 in
    x + a + b
```

محدوده کد

```
//Lightweight

<expression1>
<expression2>
...

//Verbose

begin
    <expression1>;
    <expression2>;
end
```

حلقه تکرار for do

```
//Lightweight

for counter = start to finish do
    ...

//Verbose

for counter = start .. finish do
    ...
done
```

حلقه تکرار while do

```
//Lightweight

while <condition> do
  ...

//Verbose

while <condition> do
  ...
done
```

حلقه تکرار for in

```
//Lightweight

for var in start .. finish do
  ...

//Verbose

for var in start .. finish do
  ...
done
```

دستور do

```
//Lightweight
do ...

//Verbose
do ... in
```

تعریف record

```
//Lightweight

type <record-name> =
{
  <field-declarations>
}
<value-or-member-definitions>

//Verbose

type <record-name> =
{
  <field-declarations>
}
with
  <value-or-member-definitions>
end
```

تعریف class

```
//Lightweight

type <class-name>(<params>) =
  ...

//Verbose

type <class-name>(<params>) =
  class
  ...
end ...
```

تعریف structure

```
//Lightweight
```

```
[<StructAttribute>]
type <structure-name> =
  ...
```

```
//Verbose
```

```
type <structure-name> =
  struct
  ...
end ...
```

تعریف Interface

```
//Lightweight
```

```
type <interface-name> =
  ...
```

```
//Verbose
```

```
type <interface-name> =
  interface
  ...
end ...
```

پیاده سازی Interface

```
//Lightweight
```

```
interface <interface-name>
  with
    <value-or-member-definitions>
```

```
//Verbose
```

```
interface <interface-name>
  with
    <value-or-member-definitions>
end
```

تعریف module

```
//Lightweight
```

```
module <module-name> =
```

```
...
```

```
//Verbose
```

```
module <module-name> =  
  begin  
    ...  
  end
```