<u>Examples - implicit rules for prefixing an offset with the corresponding</u> segment register

```
Mov eax, [v];
                 mov eax, DWORD PTR DS:[405000]
Mov eax, [ebx];
                 mov eax, DWORD PTR DS:[ebx]
                 mov eax, DWORD PTR SS:[ebp]
Mov eax, [ebp];
Mov eax, [ebp*2];
                   mov eax, DWORD PTR SS:[ebp+ebp]
Mov eax, [ebp*3]; mov eax, DWORD PTR SS:[ebp+ebp*2]
                  mov eax, DWORD PTR DS:[ebp*4] was
Mov eax, [ebp*4];
Mov eax, [ebx+esp]; ESP – base... EBX – index; EAX \leftarrow dword ptr [SS:esp+ebx]...
Mov eax, [esp + ebx]; ESP - base... EBX - index; EAX \leftarrow ...SS:... - 17-
Mov eax, [ebx+esp*2]; syntax error BECAUSE ESP can be ONLY a base register!
Mov eax, [ebx+ebp*2]; mov eax, DWORD PTR [DS:EBX+EBP*2]
Mov eax, [ebx+ebp]; ...DS...
Mov eax, [ebp+ebx]; ...SS...
Mov eax, [ebx*2+ebp]; ...SS...
Mov eax, [ebx*1+ebp] ;...SS...
Mov eax, [ebp*1+ebx]; ...DS...
Mov eax, [ebx (1) ebp *1]; ;... SS... - the first found scaled element is taken as index
!! EBP - base
Mov eax, [ebp*1+ebx*1]; ...DS... - the first found scaled element is taken as index
!! EBX - base
Mov eax, [ebp*1+ebx*2]; ...SS...
```