```
#include <iostream>
#include <coroutine>
struct Coro {
     struct promise_type {
         Coro get_return_object()
             return {};
                                                    constrae
          auto initial_suspend()
                                                       aggunda anda
                                                        suspend ednearth
              return std::suspend_always{};
          auto final_suspend()noexcept
              return std::suspend_always{};
          void unhandled_exception()
           void return_void()
       };
   };
```

```
-> Conowine interfere definition
```

-> coratine into fore return type imie

```
truct Awaiter {
   bool await_ready()const
   {
      std::cout << "Awaiter::await ready()\n";
      return false;
   }
   void await_suspend(std::coroutine_handle<>>)const
   {
      std::cout << "Awaiter::await_suspend()\n";
   }
   void await_resume()const
   {
      std::cout << "Awaiter::await resume()\n";
   }
};</pre>
```

-> aworter studtimiz

```
3.
```

};

```
→ woroutine`imiz l
           Coro foo()
                                                                                                                                                                                                                                -> Adopt by you in looky minder,
                            std::cout << "foo started running [1] \n";
                                                                                                                                                                                                                              his bir citte alongyz.
                            co await std::suspend never{};
                            std::cout << "foo started running [2] \n";
                                                                                                                                                                                                                               - Containing the contract of the contraction of the
                                                                                                                                                                                                                                        Deslegici co-aweit operatorini
                                                                                                                                                                                                                             be too worde abra agrice
                                                                                                                                                                                                                           =) co_await from.initial_suspend()
            Coro foo()
                         std::cout << "foo started running [1] \n";
                          co_await Awaiter{};
                          std::cout << "foo started running [2] \n";
                                                                                                                                              - awaiter in await ready sint cogically

Also return ethigh inin
           foo started running [1]
           Awaiter::await ready()
           Awaiter::await_suspend()
            main is still running
3.1. Ai
         La coowast in operand alree aldge stadenin avostable a donorment
                                                                                                                          awout transform finetion
                                                                                    - Corompromise_type
        auto initial_suspend()
                  return std::suspend_never{};
                                                                                                                                                                               foo started running [1]
         auto final_suspend()noexcept
                                                                                                                                                                               Promise_type::await_transform(int x) x = 7
                                                                                                                                                                               Awaiter::await ready()
                   return std::suspend_always{};
                                                                                                                                                                               Awaiter::await_suspend()
                                                                                                                                                                               main is still running
           void unhandled_exception()
                                                                                        coratme interface e
                                                                                                                                                                               C:\Users\necat\source\repos\COROUTINE_01\x64\De
            void return_void()
              auto await_transform(int x)const
                       std::cout << "Promise_type::await_transform(int x) x = " << x << '\n|'
                       return Awaiter{};
```

```
3.1. A.1:

Les await transition fortrigon owerse yourse Arkin his similation gearst nesse about some februs editor similar,

co-aurait operator o almost
```

```
auto Nec await_transform(int x)const
{
    std::cout << "Promise_type::await_transform(int x) x = " << x << '\n';
    return Nec{};
}
Awater wave Nec{})</pre>
```

```
struct Nec {
    auto Awaiter operator co_await()const
    {
        std::cout << "Nec::operator co_await()\n";
        return Awaiter{};
    }
};</pre>
```

```
foo started running [1]
Promise_type::await_transform(int x) x = 7
Nec::operator co_await()
Awaiter::await ready()
Awaiter::await_suspend()
main is still running
```

## 3.1.A.2:

```
La global co-await operatori:
```

```
auto operator co_await(Nec)
{
    std::cout << "operator co_await(Nec)\n";
    return Awaiter{}
}</pre>
```

```
foo started running [1]
Promise_type::await_transform(int x) x = 7
operator co_await(Nec)
Awaiter::await ready()
Awaiter::await_suspend()
main is still running
```