



LAMBDA

Function as a Value

```
let f1 = function() {
  console.log("Entering Lambda1");
  console.log("Leaving Lambda1");
};

f1();

let f2 = () => {
  console.log("Entering Lambda2");
  console.log("Leaving Lambda2");
};

f2();
```

Client - Server Setup

```
sole.log("Welcome to Higher Order Functions");
```

```
function Server()
  console.log("Task 1");
  console.log("Task 2");
  console.log("Task 3");
}
function Client1()
  console.log("Entering Client1");
  Server();
  console.log("Leaving Client1");
}
function Client2()
  console.log("Entering Client2");
  Server();
  console.log("Leaving Client2");
}
Client1();
Client2();
```

Customising Server (Classical Style)



```
×
```

```
sole.log("Welcome to Higher Order Functions");
function Server(v)
  console.log("Task 1");
  switch (v) {
    case 0: console.log("Task 2 - v1");
            break;
    case 1: console.log("Task 2 - v2");
            break;
    default: console.log("Task 2");
  console.log("Task 3");
}
function Client1()
  console.log("Entering Client1");
  Server(0);
  console.log("Leaving Client1");
}
function Client2()
  console.log("Entering Client2");
  Server(1);
  console.log("Leaving Client2");
}
function Client3()
{
  console.log("Entering Client3");
  Server();
  console.log("Leaving Client3");
}
Client1();
Client2();
Client3();
```





Callback Pattern - Higher Order Function



```
console.log("Welcome to Higher Order Functions");
function v1()
{
  console.log("Task 2 - v1");
}
function v2()
  console.log("Task 2 - v2");
function v()
  console.log("Task 2");
function Server(f = v)
  console.log("Task 1");
  f();
  console.log("Task 3");
}
function Client1()
  console.log("Entering Client1");
  Server(v1);
  console.log("Leaving Client1");
}
function Client2()
  console.log("Entering Client2");
  Server(v2);
  console.log("Leaving Client2");
}
function Client3()
```

console log("Fntering Client?")

```
consote.tog( Lintering Ctrents ),
erver();
console.log("Leaving Client3");
}
Client1();
Client2();
Client3();
```

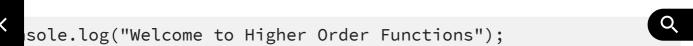
Callback Pattern with Lambda (Variant 1)

```
console.log("Welcome to Higher Order Functions");
function Server(f)
  console.log("Task 1");
  f();
  console.log("Task 3");
}
function Client1()
  console.log("Entering Client1");
  Server(
          function() {
            console.log("Task 2 - v1");
          }
        );
  console.log("Leaving Client1");
}
function Client2()
  console.log("Entering Client2");
  Server(
          function() {
            console.log("Task 2 - v2");
          }
        );
  console.log("Leaving Client2");
}
                          (i)
function Client3()
```

```
console.log("Entering Client3");
erver(
    function() {
        console.log("Task 2");
        }
    );
    console.log("Leaving Client3");
}

Client1();
Client2();
Client3();
```

Callback Pattern with Lambda (Variant 2)



```
function Server(f)
  console.log("Task 1");
  f();
  console.log("Task 3");
}
function Client1()
  console.log("Entering Client1");
  Server(
    () => console.log("Task 2 - v1")
  );
  console.log("Leaving Client1");
}
function Client2()
  console.log("Entering Client2");
  Server(
    () => console.log("Task 2 - v2")
  );
  console.log("Leaving Client2");
}
function Client3()
  console.log("Entering Client3");
  Server(
    () => console.log("Task 2")
  );
  console.log("Leaving Client3");
}
Client1();
Client2();
Client3();
```

Callback Pattern with Lambda (Variant 3)

```
sole.log("Welcome to Higher Order Functions");
function Server(f)
  const g = 55;
  console.log("Task 1");
  f(55);
  console.log("Task 3");
}
function Client1()
  console.log("Entering Client1");
  Server(
    v => {
      console.log("Task 2 - v1");
      console.log(`Value = ${v}`);
    }
  );
  console.log("Leaving Client1");
}
function Client2()
  console.log("Entering Client2");
  Server(
    v => {
      console.log("Task 2 - v2");
      console.log(`Value = ${v}`);
    }
  );
  console.log("Leaving Client2");
}
function Client3()
{
  const x = 22;
  console.log("Entering Client3");
  Server(
    v => {
      console.log("Task 2");
      console.log(`Value = \{v + x\}`);
```

```
console.log("Leaving Client3");

Client1();
Client2();
Client3();
```

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