What is the use of a strategy pattern? Give an example where it can be used.

The strategy pattern is useful in situations where you (or users of your code) may want to change calculations in your algorithms. A simple example where I have used the strategy pattern is in modeling heuristics in an A\* search. A\* uses heuristics, which are simple calculations to estimate the remaining cost if a certain node (Ni) is chosen on the path to the goal node (Ng).

Q =>

function CreditCardStrategy(cvv,cardNumber,expiryDate){

this.cvv=cvv;

this.cardNumber=cardNumber;

this.expiryDate=expiryDate;

this.pay= (amount)=>{

console.log(amount +" "+"paid using credit card")

}

}

function PaypalStrategy(email,password) {

this.email=email;

this.password=password;

this.pay=(amount)=>{

console.log(amount +" "+"paid using Paypal")

}

}

function Item(code,price){

this.code=code;

this.price=price;

}

function ShoppingCart(){

this.itemList=[];

this.addItemList = (item)=>{

this.itemList.push(item)

}

this.removeItemList = (item)=>{

let index=this.itemList.indexOf(item);

this.itemList.splice(index,1);

}

this.CalculateTotal = () =>{

let total=0;

this.itemList.forEach((e)=>{

total+=e.price;

})

return total;

}

this.pay = (PaymentStrategy,amount)=>{

PaymentStrategy.pay(amount);

}

}

let cart = new ShoppingCart()

let p1= new Item("mbs01",100)

let p2= new Item("mbso2",90)

cart.addItemList(p1)

cart.addItemList(p2)

let total=cart.CalculateTotal()

let details = new CreditCardStrategy(683,2359638837973927,"22/26")

cart.pay(details,total)

let urserupi = new PaypalStrategy("anki@icici","49492")

cart.pay(strategypp,total)