

```
function atmWithdrawal(balance, amount, pin, enteredPin) {  
  
    if (enteredPin !== pin) {  
        return "Incorrect PIN. Please try again.";  
    }  
  
    if (amount > balance) {  
        return "Insufficient funds. Your current balance is too low.";  
    }  
  
    if (amount % 100 !== 0) {  
        return "Please enter an amount in multiples of 100.";  
    }  
  
    balance -= amount;  
    return `Transaction successful! Your remaining balance is ${balance}.`;  
}
```

```
function calculateFinalAmount(orderAmount) {
  let discount = 0;
  let shipping = 0;

  if (orderAmount > 1000) {
    discount = orderAmount * 0.20;
  } else if (orderAmount >= 500 && orderAmount <= 1000) {
    discount = orderAmount * 0.10;
  } else {
    discount = 0;
  }

  if (orderAmount > 50) {
    shipping = 0;
  } else {
    shipping = 10;
  }

  const finalAmount = orderAmount - discount + shipping;
  return finalAmount;
}
console.log(calculateFinalAmount(1200));
console.log(calculateFinalAmount(800));
console.log(calculateFinalAmount(300));
console.log(calculateFinalAmount(20));
```

```
function calculateGrade(marks, attendance) {  
  if (attendance > 90) {  
    marks += 5;  
  }  
  if (marks >= 90) {  
    return "A";  
  } else if (marks >= 80 && marks < 90) {  
    return "B";  
  } else if (marks >= 70 && marks < 80) {  
    return "C";  
  } else if (marks >= 60 && marks < 70) {  
    return "D";  
  } else {  
    return "F";  
  }  
}
```

```
console.log(calculateGrade(85, 95)); // Output: "A" (85 + 5 = 90 → "A")  
console.log(calculateGrade(78, 92)); // Output: "C" (78 + 5 = 83 → "B")  
console.log(calculateGrade(88, 85)); // Output: "B" (No extra marks, 88 → "B")  
console.log(calculateGrade(55, 95)); // Output: "D" (55 + 5 = 60 → "D")  
console.log(calculateGrade(45, 80)); // Output: "F" (No extra marks, 45 → "F")
```

```
function determineGreenLightTime(trafficLevel) {  
  if (trafficLevel === "Heavy Traffic") {  
    return 60;  
  } else if (trafficLevel === "Moderate Traffic") {  
    return 40;  
  } else if (trafficLevel === "Light Traffic") {  
    return 20;  
  } else {  
    return "Invalid input, please enter a valid traffic level.";  
  }  
}  
  
console.log(determineGreenLightTime("Heavy Traffic"));  
console.log(determineGreenLightTime("Moderate Traffic"));  
console.log(determineGreenLightTime("Light Traffic"));  
console.log(determineGreenLightTime("No Traffic"));
```

```
function calculateTicketPrice(age, showTime) {
  const standardPrice = 12;
  let discount = 0;

  if (showTime < 17) {
    discount = 0.20;
  }
  if (age > 60) {
    discount = Math.max(discount, 0.30);
  }
  if (age < 12) {
    discount = Math.max(discount, 0.40);
  }

  return standardPrice * (1 - discount);
}
console.log(calculateTicketPrice(10, 14));
console.log(calculateTicketPrice(65, 18));
console.log(calculateTicketPrice(30, 16));
console.log(calculateTicketPrice(30, 19));
```

```
function isEligibleForJob(age, experience, qualification) {  
  
    if (age >= 21 && age <= 55 && experience >= 2 && qualification.toLowerCase().includes("bachelor")) {  
        return true;  
    }  
    return false;  
}  
console.log(isEligibleForJob(25, 3, "Bachelor's Degree"));  
console.log(isEligibleForJob(20, 5, "Bachelor's Degree"));  
console.log(isEligibleForJob(30, 1, "Bachelor's Degree"));  
console.log(isEligibleForJob(40, 5, "Master's Degree"));  
console.log(isEligibleForJob(35, 4, "Bachelor of Science"));
```

```
function applyCoupon(orderAmount, couponCode) {  
  
    if (couponCode === "DISCOUNT10" && orderAmount > 500) {  
        return orderAmount * 0.9;  
    } else if (couponCode === "FREESHIP" && orderAmount > 200) {  
        return orderAmount; // Free shipping assumed to have no cost effect  
    }  
    return orderAmount;  
}  
console.log(applyCoupon(600, "DISCOUNT10"));  
console.log(applyCoupon(250, "FREESHIP"));  
console.log(applyCoupon(100, "FREESHIP"));  
console.log(applyCoupon(550, "DISCOUNT10"));  
console.log(applyCoupon(500, "DISCOUNT10"));
```

```
function choosePlan(wantsTrainer, wantsDietPlan) {  
  
    if (wantsTrainer && wantsDietPlan) {  
        return "VIP";  
    } else if (wantsTrainer) {  
        return "Premium";  
    } else {  
        return "Basic";  
    }  
}  
  
console.log(choosePlan(false, false));  
console.log(choosePlan(true, false));  
console.log(choosePlan(true, true));  
console.log(choosePlan(false, true));
```



```
function calculateElectricityBill(units, timeOfDay) {

    let rate;

    if (units < 100) {
        rate = 5;
    } else if (units <= 300) {
        rate = 4;
    } else {
        rate = 3;
    }

    let hour = parseInt(timeOfDay.split(":")[0], 10);

    if (hour >= 20 || hour < 8) {
        rate *= 1.1;
    }

    return units * rate;
}

console.log(calculateElectricityBill(50, "10:00"));
console.log(calculateElectricityBill(150, "22:00"));
console.log(calculateElectricityBill(350, "07:00"));
```

```
function calculateFlightFare(classType, luggageWeight, isStudent, isSenior) {

    let baseFare = 300;

    if (classType === "Business") {
        baseFare += 200;
    } else if (classType === "First") {
        baseFare += 500;
    }

    if (luggageWeight > 20) {
        let extraWeight = luggageWeight - 20;
        let extraCharge = Math.ceil(extraWeight / 10) * 50;
        baseFare += extraCharge;
    }

    if (isStudent) {
        baseFare *= 0.85;
    } else if (isSenior) {
        baseFare *= 0.90;
    }

    return baseFare;
}

console.log(calculateFlightFare("Economy", 25, true, false));
console.log(calculateFlightFare("Business", 30, false, true));
console.log(calculateFlightFare("First", 40, false, false));
```