

P1

```
//easy problem1
var totalAmount = parseInt(prompt("Enter your total amount : "))

if (totalAmount > 500) {
  console.log(`Your Total price is : `, totalAmount - (totalAmount * (20 / 100)), `=> (${totalAmount}-20% of ${totalAmount})`)
}
else if (totalAmount >= 200 && totalAmount <= 500) {
  console.log(`Your Total price is : `, totalAmount - (totalAmount * (10 / 100)), `=> (${totalAmount}-10% of ${totalAmount})`)
}
else if (totalAmount < 200 && totalAmount > 0) {
  console.log("No discount")
}
else (console.log("Enter the proper amount"))
```

P2

```
//easy problem2
var temperature = parseInt(prompt("Enter your temperature : "))

if (temperature > 40) {
  console.log("Extream Heat")
}
else if (temperature >= 20 && temperature <= 40) {
  console.log("Moderate")
}
else if (temperature < 20) {
  console.log("Cold")
}
else (console.log("Enter temperature in Number"))
```

P3

```
//easy problem3
var marks = parseInt(prompt("Enter your total marks : "))

if (marks >= 90 && marks <= 100) {
    console.log("Your grade is : A+")
}
else if (marks >= 80 && marks <= 89) {
    console.log("Your grade is : A")
}
else if (marks >= 70 && marks <= 79) {
    console.log("Your grade is : B")
}
else if (marks <= 69 && marks >= 0) {
    console.log("Your grade is : C")
}
else (console.log("Enter your proper marks"))
```

P4

```
//easy problem4
var lateDays = parseInt(prompt("Enter your number of late days : "))

if (lateDays >= 1 && lateDays <= 5) {
    console.log("Total fine amonut is : ", lateDays * 2)
}
else if (lateDays >= 6 && lateDays <= 10) {
    console.log("Total fine amonut is : ", lateDays * 3)
}
else if (lateDays > 10) {
    console.log("Total fine amonut is : ", lateDays * 5)
}
else (console.log("Enter your proper days"))
```

P5

```
//easy problem5
var favFood = String(prompt("Enter your favourite food : ")).toLowerCase()

if (favFood == "pizza") {
    console.log("Pizza lover!")
}
else if (favFood == "pasta") {
    console.log("Pasta lover!")
}
else if (favFood == "burger") {
    console.log("Burger lover!")
}
else {console.log("Invalid Choice")}
```

P6

```
// medium problem1
var age = parseInt(prompt("Enter your age : "))
var income = parseFloat(prompt("Enter your income : "))
var hasCriminalRecords = prompt("has criminal records True/False ").toLowerCase()

if ((age >= 21 && age <= 60) && (income >= 20000) && (hasCriminalRecords == "false")) {
    console.log("Eligible for loan")
}
else { console.log("Not eligible for loan") }
```

P7

```
// medium problem2
var salesTarget = Number(prompt("Enter your sales target in percentage : "))
var monthlySalary = Number(prompt("Enter your salary : "))

if (salesTarget > 100) {
    console.log("Your bonus is = ", monthlySalary * (20 / 100))
}
else if (salesTarget <= 100) {
    console.log("No Bonus")
}
}
```

P8

```
// medium problem3
var totalClasses = Number(prompt("Enter the total classes : "))
var classesAttended = Number(prompt("Enter the number of classes you are attended : "))

if (classesAttended >= (totalClasses * (75 / 100))) {
  console.log("Eligible")
}
else {
  console.log("Not Eligible")
}
```

P9

```
// medium problem4
var purchaseAmount = parseFloat(prompt("Enter your total amount : "))

if (purchaseAmount > 0 && purchaseAmount < 100) {
  console.log(((purchaseAmount / 10) * 1) + " points")
}
else if (purchaseAmount >= 100) {
  console.log(((purchaseAmount / 10) * 2) + " points")
}
else { console.log("Enter your correct purchase amount") }
```

P10

```
// medium problem5
var yourText = prompt("Enter your text here : ")
var letter = prompt("Enter the letter here : ")
sum = 0;

for (i = 0; i < yourText.length; i = i + 1) {
  if (yourText[i] == letter) {
    sum = sum + 1
  }
}
console.log(`${letter} Number of times occurred = ` + sum)
```

P11

```
// hard problem1
var currentDay = parseInt(prompt("Enter the today number here : "))
var expiryDay = parseInt(prompt("Enter the expiry number here : "))

if (currentDay > expiryDay) {
    console.log("It's expired")
}
else { console.log("Not expired") }
```

P12

```
// hard problem2
var arrayOfIntegers = prompt("Enter the array of integers here : ")

for (i = 0; i < arrayOfIntegers.length; i = i + 1) {
    if ((arrayOfIntegers[i] % 2) == (arrayOfIntegers[i + 1] % 2)) {
        console.log("Patter broken")
    }
    else { console.log("followed") }
}
```

P13

```
// hard problem3
var balance = Number(prompt("Enter your balance here : "))
var withdrawlAmount = Number(prompt("Enter your withdrawl amount here : "))

if (balance >= withdrawlAmount) {
    console.log("Transaction Approved")
}
else { console.log("Insufficient Funds") }
```

P14

```
// hard problem4
var givenString = prompt("Enter your text : ")

for (i = 0; i < givenString.length; i = i + 1) {
    if ((i == "a" || i == "e" || i == "i" || i == "o" || i == "u") && (i + 1 != "a" && i + 1 != "e" && i + 1 != "i" && i + 1 != "o" && i + 1 != "u")) {
        console.log("pattern followed")
    }
    else { console.log("not followed") }
}
//p4 not completed properly
```

P15

```
// hard problem5
var balance = prompt("Enter the number here : ")
sum = 0;

for (i = 0; i < balance.length; i = i + 1) {
    sum = sum + +balance[i]
}
console.log("Sum of the numbers = " + sum);
if (sum % 2 == 0) {
    console.log("Sum is Even")
}
else {
    console.log("Sum is Odd")
}
```