***1.check wether the points are in which quadrant.***

let x = 3;

let y = -9;

if (x > 0 && y > 0) {

console.log("quaderent 1");

} else if (x < 0 && y > 0) {

console.log("quaderent 2");

} else if (x < 0 && y < 0) {

console.log("quaredent 3");

} else if (x > 0 && y < 0) {

console.log("quaderent4");

} else if (x > 0 && y == 0) {

console.log("on x axis");

} else if (x < 0 && y == 0) {

console.log("on -x axis");

} else if (x == 0 && y > 0) {

console.log("on y axis ");

} else if (x == 0 && y < 0) {

console.log("on -y axis");

} else if (x == 0 && y == 0) {

console.log("origin");

} else {

console.log("all equal");

}

***Output:***

quaderent4

***2. display tax***

***bs=150000***

***no tax***

***bs>=150000 & bs<300000***

***5% taxon bs***

***bs>=300000***

***7% tax on bs.***

let bs = 480000;

if (bs <= 150000) {

console.log(" no tax ");

} else if (bs >= 150000 && bs <= 300000) {

tax = bs / 5;

console.log("tax amount is: " + tax);

} else if (bs >= 300000 && bs <= 500000) {

tax = bs / 7;

console.log("tax amount is: " + tax);

} else {

console.log("your tax is:" + bs);

}

***Output:***

tax amount is: 68571.42857142857

***3.Accept cost price and selling price and find profit and loss in percentage/ amount.***

let sp = 50;

let cp = 40;

if (sp > cp) {

let profit = sp - cp;

let per = (profit / cp) \* 100;

console.log("total profit" + profit);

console.log("total percentage" + per);

}

if (sp < cp) {

let loss = sp - cp;

let per = (loss / cp) \* 100;

console.log("total profit" + loss);

console.log("total percentage" + per);

} else {

console.log("no loss no profit");

}

***Output:***

total profit10

total percentage25

no loss no profit

***4.accept balance atm and withdrawl amount then display msg otherwise remaining balance after withdrawl amt.***

let camt=20000

let n=2000

if(camt>=n)

{

w=camt-n;

console.log("your withdrwal amount:"+n);

console.log("current amount:"+w);

}

else{

console.log("not withdrawl");

}

***Output:***

our withdrwal amount:2000

current amount:18000

***5.check number is divisibal by 5 and 7***

let n = 105;

if (n % 5 == 0) {

if (n % 7 == 0) {

console.log(n + " is divisibal by 5 and 7");

} else {

console.log(n + " is not divisibal by 5 but not 7");

}

} else {

if (n % 7 == 0) {

console.log(n + " divisibal by 7 or not 5");

} else {

console.log(n + " not divisibal by 5 or not 7");

}

}

***Output:***

105 is divisibal by 5 and 7

***6. age ,wt,hb and check wether he/she is eligibal for blood donation.***

let age=20

let wt=55

let hb=11

if(age>=18)

{

if(hb>=12)

{

if(wt>=55)

{

console.log("you are able to blood donate");

}

else{

console.log("age and hb is valid but not wt");

}

}

else{

console.log("age and weight valid hb not valid");

}

}

else{

console.log("age is not valid");

}

Output:

ge and weight valid hb not valid

***7.accept mark and disply total, percentage , and class***

let m1 = 98;

let m2 = 89;

let m3 = 78;

let total = m1 + m2 + m3;

let percentage = total / 3.0;

console.log("Total marks: " + total);

console.log("Percentage: " + percentage + "%");

if (m1 >= 40) {

if (m2 >= 40) {

if (m3 >= 40) {

if (percentage >= 75) {

console.log("Class: Distinction");

} else if (percentage >= 60) {

console.log("Class: First Class");

} else if (percentage >= 50) {

console.log("Class: Second Class");

} else if (percentage >= 40) {

console.log("Class: Pass Class");

}

} else {

console.log("Result: ATKT Fail");

}

} else {

console.log("Result: ATKT Fail");

}

} else {

console.log("Result: Fail");

}

***Output:***

Total marks: 265

Percentage: 88.33333333333333%

Class: Distinction

***8. Write a program that calculates the ticket price for a movie based on the age of the customer. Children under 12 get a discount, while seniors over 65 also get a discount.***

let age=45

let tp=40

if(age<12)

{

let dis=tp\*0.20;

let total=tp-dis;

console.log("Your Discount:"+total);

}

else if(age>12)

{

let dis=tp\*0.10;

let total=tp-dis;

console.log("Your Discount:"+total);

}

else {

console.log("Your are watch movie ");

}

***Output:***

Your Discount:36

***9. Write a program that simulates a traffic light. The program asks the user for the current color of the traffic light and then informs them of the appropriate action based on the color.***

let color = "r";

if(color=='r' || color=='R'){

console.log("stop");

}

if(color=='y' || color=='Y'){

console.log(" slowly go");

}

if(color=='g' || color=='G'){

console.log("go");

}

***Output:***

Stop

***10. Write a java program to input month number and print number of days in that month.***

let n = 5;

if (n == 1 || n == 3 || n == 5 || n == 7 || n == 8 || n == 10 || n == 12) {

console.log("Monthly days is 30");

} else if (n == 9 || n == 4 || n == 6 || n == 11) {

console.log("Monthly days is 31");

} else if (n == 2) {

console.log("Monthly days is 28/29");

}

***Output:***

Monthly days is 30

***11. Rajesh’s basic salary give input. His D.A. is 40% of basic salary, and H.R.A. is 20% of basic salary. Write a program to calculate his gross salary?***

let bs=20000

hra=bs\*0.20;

da=bs\*0.40;

gs=bs+hra+da;

console.log("HRA:"+hra);

console.log("DA:"+da);

console.log("GS:"+gs);

***output:***

HRA:4000

DA:8000

GS:32000