**Task 1**

var age = 10;

var result = (age < 5) ? "Free Entry For the children" : (age >= 5 && age <= 12) ? "Your ticket price is 10$ with a 50% discount applied" : "Your ticket price is 20$";

console.log(result);

**Task 2**

var time = 24;

var result = (time > 0 && time <= 10) ? "Good Morning" : (time > 10 && time < 4) ? "Good Afternoon" : (time > 4 && time <= 24) ? "Good Night" : "enter the correct time"

console.log(result);

**Task 3**

var num = 0;

var result = (num > 0) ? "Its a Positive Number" :(num <0) ? "Its a negative number" : "Its a zero"

console.log(result);

**Task 4**

var mem = "premium";

var result = (mem == "basic") ? "Access to only free books." : (mem == "standard") ? "Access to free books and discounted paid books." :(mem == "premium") ? "Access to all books, including exclusive content." : "Enter your Membership correctly"

console.log(result);

**Task 5**

var mem = "rejkcniek";

var amt = 100;

if (mem === "regular" && amt < 100) {

console.log("No discount for purchases under $100.");

}

else if (mem === "regular" && (amt >= 100 && amt <= 500)) {

console.log("A 5% discount for purchases between $100 and $500.");

}

else if (mem === "regular" && amt > 500) {

console.log("A 20% discount for purchases over $500.");

}

else if (mem === "vip" && amt < 100) {

console.log("A 10% discount for purchases under $100.");

}

else if (mem === "vip" && amt >= 100 && amt <= 500) {

console.log("A 15% discount for purchases between $100 and $500.");

}

else if (mem === "vip" && amt > 500) {

console.log("A 20% discount for purchases over $500.");

}

else {

console.log("Enter your details correctly.");

}

**Task 6**

var gpa = 2.5;

var leader = 2;

var css = 150;

if (gpa >= 3.5){

console.log("You are eligible fpr Merit-Based Scholarship");

}

else if (leader >= 2 && gpa >= 3.0 ) {

console.log("You are eligible for leadership Scholarship")

}

else if(css >=100 && gpa >= 2.5){

console.log("You are eligible for Community Service Scholarship")

}else {

console.log("Enter your details correctly")

}

**Task 7**

var day = "weekdays";

var age = 70;

if(day == "weekdays" && (age <= 12 || age >= 65)){

console.log("you recieve a 50% of discount on ticket price");

}

else if(day == "weekdays" && (age > 12 || age < 65)){

console.log("you ticket price is 12$");

}

else if(day == "weekend" && (age <= 12 || age >= 65)){

console.log("you recieve a 30% of discount on ticket price");

}

else if(day == "weekend" && (age > 12 || age < 65)){

console.log("you ticket price is 15$");

}

**Task 8**

var age = 19;

var par = 12;

var email = "rahuljakkula6@gmail.com";

if (age >= 18 && par <= 100 && email === "rahuljakkula6@gmail.com"){

console.log("Your registration has been confirmed");

}

else if(age < 18){

console.log("you age is below 18 you're not allowed");

}

else if(par > 100){

console.log("the show has been full");

}

else{

console.log("enter valid credentials");

}

**Task 9**

var teaType = "Masala";

var addOn = "No Add-ons";

var basePrice = 0;

var addOnPrice = 0;

if (teaType === "Regular") {

basePrice = 15;

}

else if (teaType === "Masala") {

basePrice = 20;

}

else if (teaType === "Ginger") {

basePrice = 25;

}

else {

console.log("Invalid tea type selected."); return

}

if (addOn === "Extra Sugar") {

addOnPrice = 2.50;

}

else if (addOn === "Extra Milk") {

addOnPrice = 5;

}

else if (addOn === "No Add-ons") {

addOnPrice = 0;

}

else {

console.log("Invalid add-on selected.");

}

var total = basePrice + addOnPrice;

console.log("your total bill is" + total);