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Course : blockchain Programming

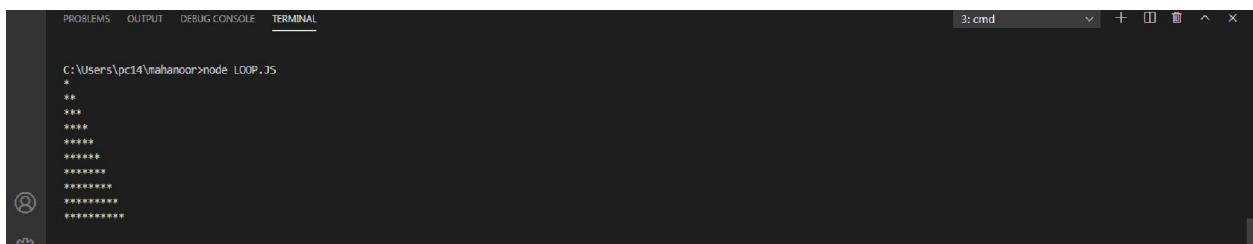
Section: "B"

FOR LOOP:

RIGHT TRIANGLE:

```
let a= 10
var str="";
for (var i=1; i<=10; i++ ){
  for (var j=1 ; j<=10; j++ ){
    if(j<=i){
      str= str.concat("*");
    }
    else{
      str= str.concat(" ");
    }
  }
  str= str.concat("\n");
}
console.log(str)
```

OUTPUT:



```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
C:\Users\pc14\mahanoor>node LOOP.JS
*
**
***
****
*****
*****
*****
*****
*****
*****
*****
*****
```

1:

```
var str="";
for (var i=1; i<=10; i++ ){
  for (var j=1 ; j<=10; j++ ){
    if(i<=j){
      str= str.concat("*");
    }
  }
}
```

OUTPUT

LEFT TRIANGLE:

OUTPUT:

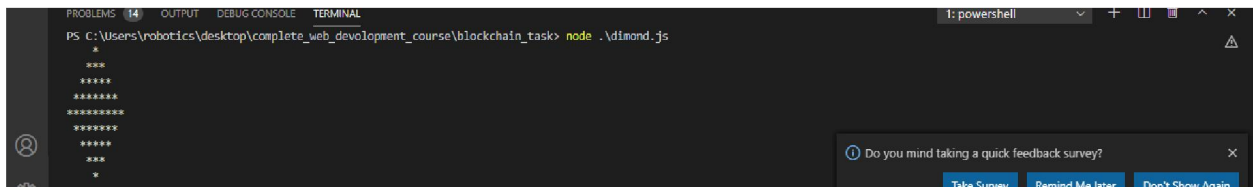
C: \Users\pc14\mahanoor>

DIMOND TASK:

CODE:

```
let x = 10;
let y = 10;
let str="";
for(let i= 1; i<y ; i++){
    for(let j= 1; j<x ; j++){
        if( i<=y/2 && j>=(y/2)-(i-1) && j<=(y/2)+(i-1))
        {
            str = str.concat("*");
        }
        else if(i>=y/2
            && j>((y/2) -i) *(-1)
            && j< (y - (y - ( y/2)-i) * (-1) ) ){
            str = str.concat("*");
        }
        else{
            str = str.concat(" ");
        }
    }
    str= str.concat("\n")
}
console.log(str)
```

OUTPUT:



Lab task:

While , do while ,for of and for in

```
do{
//      console.log("mahnoor")
//      j++;
// }
// while(j<=10)

// var list = ["apple","mango","banana"];
```

```

// var item;
// for(item of list){
//     console.log(item)
// }
// const array1 = ['a', 'b', 'c'];

// for (const element of array1) {
//     console.log(element);
// }

// const object = { a: 1, b: 2, c: 3 };

// for (const property in object) {
//     console.log(`${property}: ${object[property]}`);
// }

// const object = { a: 1, b: 2, c: 3 };

// for (const property in object) {

//     console.log(object)
// }
// var person = {fname:"mariyam", lname:"mahnoor", age:22};

// var text = "";
// var x;
// for (x in person) {
//     console.log(x)
//     console.log(person)
//     // console.log(person[x])
//     text += person[x] + " ";
// }
// console.log(text)

var pakistan= [ ["sindh","karachi"] , ["punjab","lahore"] ,["punjab","islamabad"]
, ["punjab","sialkot"],["peshawer","kashmir"] ]
for ( i=0 ; i<= 4 ; i++ ){
    x = (pakistan[i] )
    console.table(pakistan)
}
var sarray = ["sindh", "punjab", "balochistan", "kpk"]

```

```

for ( j=0 ; j< 1 ; j++ ) {
  console.log(sarray+" "+[x])
}
}

```

OUTPUT:

older,

(index)	0	1
0	'sindh'	'karachi'
1	'punjab'	'lahore'
2	'punjab'	'islamabad'
3	'punjab'	'sialkot'
4	'peshawar'	'kashmir'

sindh,punjab,balochistan,kpk sindh,karachi

(index)	0	1
0	'sindh'	'karachi'
1	'punjab'	'lahore'
2	'punjab'	'islamabad'
3	'punjab'	'sialkot'
4	'peshawar'	'kashmir'

sindh,punjab,balochistan,kpk punjab,lahore

(index)	0	1
0	'sindh'	'karachi'
1	'punjab'	'lahore'
2	'punjab'	'islamabad'
3	'punjab'	'sialkot'
4	'peshawar'	'kashmir'

sindh,punjab,balochistan,kpk punjab,islamabad

(index)	0	1
0	'sindh'	'karachi'

ATM TASK:

CODE:

```

var obj = {
  Name: "Mariyam mahnoor",
  Account_no: "78123863837",
  balance_Amount: 2000,
}
var balance = 2000;
function get_balance() {
  console.log("your balance is " + balance)
  atm_1();
};

function make_deposit() {
  takeInput.question('How much would you like to deposit?', function
  (deposit) {
    deposit = parseInt(deposit);
    if (isNaN(deposit) || deposit === '') {
      console.log('Error: please enter a number!');
      make_deposit();
    }
  });
}

```

```

        }
        else {
            balance += deposit;
            get_balance();
        }

    })
    atm_1();
};

function make_withdrawal() {
    takeInput.question('How much would you like to withdraw?', function (deposit) {
        deposit = parseInt(deposit);
        if (isNaN(deposit) || deposit === '') {
            console.log('Error: please enter a number!');
            make_deposit();
        }
        else {
            balance -= deposit;
            get_balance();
        }

    })
    atm_1();};

function EXIT_1(){
    takeInput.close();
}

function atm_1(){
    takeInput.question('Select a choice 1.) Balance 2.) Deposit 3.) Withdrawal 4.) Exit', function (choice) {
        choice = parseInt(choice);
        if (choice === 1) {
            console.log("Balance")
            get_balance();
        }
        else if (choice === 2) {

```

```

        make_deposit();
    }
    else if (choice === 3) {
        make_withdrawal();
    }
    else {
        EXIT_1();
    }
    // takeInput.close();
});
}
function atm () {
takeInput.question("enter your name: ??/", function (name) {
    if (name == "Mariyam Mahnoor") {
        console.log(obj)
    }
    atm_1();
});}

atm();

```

OUTPUT:



```

143 takeInput.question("enter your name: ??/", function (name) {
144     if (name == "Mariyam Mahnoor") {
C:\Users\pc14\mahanoor>MODE Task.js
enter your name: ???/Mariyam Mahnoor
{ Name: 'Mariyam mahnoor',
  Account_no: '78123863837',
  balance_Amount: 2000 }
Select a choice 1.) Balance 2.) Deposit 3.) Withdrawal 4.) Exit2
How much would you like to deposit?3445
your balance is 5445
Select a choice 1.) Balance 2.) Deposit 3.) Withdrawal 4.) Exit3
How much would you like to withdraw?4535
your balance is 910
Select a choice 1.) Balance 2.) Deposit 3.) Withdrawal 4.) Exit4
C:\Users\pc14\mahanoor>

```