**Team 11**

Welcome to Team 11, the ultimate cricket team management application that brings your dream team to life! Team 11 offers you a comprehensive platform to create, manage, and optimize your cricket team.Team creation between MI and CSK .

**Array**

Version 1

Accessing Elements

Create team

**Code:**

const miPlayers= [

"Rohit Sharma",

"Jasprit Bumrah",

"Hardik Pandya",

"Kieron Pollard",

"Quinton de Kock",

"Suryakumar Yadav",

"Krunal Pandya",

"Trent Boult",

"Ishan Kishan",

"Chris Lynn",

"Nathan Coulter-Nile",

"Rahul Chahar",

"Adam Milne",

"Jayant Yadav",

"Anmolpreet Singh",

"Mohsin Khan",

// Add more players as needed

];

const cskPlayers = [

"MS Dhoni",

"Suresh Raina",

"Ravindra Jadeja",

"Faf du Plessis",

"Ambati Rayudu",

"Dwayne Bravo",

"Deepak Chahar",

"Shardul Thakur",

"Robin Uthappa",

"Moeen Ali",

"Ruturaj Gaikwad",

"Krishnappa Gowtham",

"Sam Curran",

"Lungi Ngidi",

"Imran Tahir",

"Josh Hazlewood",

// Add more players as needed

];

console.log(miPlayers); //display MI team in array format

console.log(cskPlayers); ////display csk team in array format

console.log([miPlayers,cskPlayers]) //nested array

console.log(miPlayers[1]) //display mi player #1st method

console.log(cskPlayers.at(1)) // return position 1 index value #2nd method

console.log("type:"+typeof(cskPlayers)) //display type

//array iteration using for loop mi team

for (i=0 ; i< miPlayers.length;i++){

console.log("Mi Player:"+ miPlayers[i])

}

// array iteraion using for in loop

for(let player in batsman){

console.log(batsman[player])

}

//array iteration using for each loop

function myFunction (item){

console.log(item)

}

cskPlayers.forEach(myFunction);

//---------------------------------my team creation--------------------------------------

let batsman = []

let bowler = []

let wicket\_keeper = []

let player\_name

let player = function (){

player\_name = prompt(("Enter the player name"))

}

//batting team creation using push method

//include and push methods

function bat(){

console.log("Batsman name")

for (i=0;i<5;i++){

player()

if (miPlayers.includes(player\_name) || cskPlayers.includes(player\_name)){

batsman.push(player\_name) //element add in last

}

else{

console.log("player not in list please enter proper name");

i--

}

}

}

//balling team creation using unshift method

//unshift()

function ball(){

console.log("Baller name")

for (i=0;i<5;i++){

player()

if (miPlayers.includes(player\_name) || cskPlayers.includes(player\_name)){

bowler.unshift(player\_name) //element add in first

}

else{

console.log("player not in list please enter proper name");

i--

}

}

}

function wk(){

player()

if (miPlayers.includes(player\_name) || cskPlayers.includes(player\_name)){

wicket\_keeper.unshift(player\_name)

}

else{

console.log("player not in list please enter proper name");

wk()

}

}

// Search player

inp\_name =prompt("Enter the player name")

const found = miPlayers.find((name) => name == inp\_name);

if (found!=undefined){

console.log(found)

}

else{

console.log("Player not found")

}

Version 2

Updating team

Code:

let batsman = ["Ambati Rayudu", "Shardul Thakur","Trent Boult",

"Ishan Kishan", "Adam Milne"

]

let bowler = ["Adam Milne",

"Jayant Yadav","Shardul Thakur", "Krunal Pandya", "Nathan Coulter-Nile",

]

let wc = ["MS Dhoni"]

// Display my team

//concat method

my\_team = [batsman + bowler + wc] //first method

my\_team = batsman.concat(bowler).concat(wc) //second method

console.log(my\_team)

console.log(my\_team.sort()) // Display sorted player list.

console.log(my\_team.reverse())// Display player name in reverse order array

//slice method return new array

console.log(batsman.slice(1,3))

// return value in array start position 1 to 3 index position

//update team

//splice method change the original array

//remove elements from array start index position 1 to 3 then add new elements between them

batsman.splice(1,3,"Adam Milne","Jayant Yadav","Anmolpreet Singh","Mohsin Khan",)

console.log("Splice array : " + batsman)

batsman.splice(0)//remove all player from batsman team

//remove last player from bowler

console.log(bowler.pop())

//remove first player from bowler

console.log(bowler.shift())

//Ambati Rayadu not play replace them with Ruturaj Gaikwad

let index = batsman.indexOf("Ambati Rayudu") // if value is not find them it return -1

console.log(index)

batsman[index]="Ruturaj Gaikwad"

//return string and join method does not change original array.

console.log(batsman.join())

console.log(batsman.join("|"))

//delete method

delete batsman[1] //it show emppty space in array

Version3

**Code**

//Using map function

let batsman = ["Ambati Rayudu", "Shardul Thakur", "Trent Boult", "Ishan Kishan", "Adam Milne",

];

let bowler = ["Adam Milne",

"Jayant Yadav","Shardul Thakur", "Krunal Pandya", "Nathan Coulter-Nile",

]

let wc = ["MS Dhoni"]

let sr = [134, 130, 120, 111, 124];

let bats = batsman.map((player, index) => [player, sr[index]]);

console.log(bats);

//display player name which runrate more than 120

let bat\_filt = bats.filter((player) => player[1] > 120); // Filter only players with sr > 120

console.log(bat\_filt)

//Display unique player name from my array

let combined = [...batsman,...bowler,...wc]; //spread operator

//use reduce method

let uniquePlayers = combined.reduce((acc, player) => {

if (!acc.includes(player)) {

acc.push(player);

}

return acc;

}, []);

console.log(uniquePlayers);

//rest operator

function newBowlers(newBowler, ...existingBowlers) {

let allBowlers = [...existingBowlers,newBowler];

for (let bowler of allBowlers) {

console.log(bowler);

}

}

newBowlers("Trent Boult", ...bowler);

//array destructor : array value stored in seperate variable

let [player1,player2,player3,player4,player5]= batsman

console.log(player1,player2,player3,player4,player5)