**JULY20\_Assignment**

Code1:

var contactApp = [];

var nextId = 1;

function create() {

console.log("Insertion of records");

let toDoItem = prompt("Enter ToDo Item");

let obj = {

id: nextId++,

toDoItem: toDoItem,

Status: "not completed",

};

contactApp.push(obj);

console.log("ToDo Item added successfully!");

console.log(contactApp);

}

function update() {

console.log("Updation of records");

let idToUpdate = parseInt(

prompt("Enter the ID of the ToDo Item you want to update")

);

const existingIndex = contactApp.findIndex(

(contact) => contact.id === idToUpdate

);

if (existingIndex !== -1) {

let newStatus = prompt(

"Do you really want to update status to Completed? (yes/no)"

).toLowerCase();

if (newStatus === "yes") {

contactApp[existingIndex].Status = "completed";

console.log("Status updated to Completed successfully!");

contactApp.forEach((element) =>

console.log(element.id, element.toDoItem, element.Status)

);

} else {

console.log("Status update operation cancelled.");

}

} else {

console.log("ToDo Item with the provided ID does not exist");

}

}

function read() {

console.log("Reading records");

const completedItems = contactApp.filter(

(item) => item.Status === "completed"

);

const notCompletedItems = contactApp.filter(

(item) => item.Status !== "completed"

);

console.log("Completed Items:");

completedItems.forEach((element) =>

console.log(element.id, element.toDoItem, element.Status)

);

console.log("Not Completed Items:");

notCompletedItems.forEach((element) =>

console.log(element.id, element.toDoItem, element.Status)

);

}

function deleteRec() {

console.log("Deletion of records");

let idToDelete = parseInt(

prompt("Enter the ID of the ToDo Item you want to delete")

);

const existingIndex = contactApp.findIndex(

(contact) => contact.id === idToDelete

);

if (existingIndex !== -1) {

contactApp.splice(existingIndex, 1);

console.log("ToDo Item deleted successfully!");

} else {

console.log("ToDo Item with the provided ID does not exist");

}

}

function deleteAll() {

console.log("Deletion of all records");

contactApp = [];

console.log("All ToDo Items deleted successfully!");

}

function main() {

while (true) {

console.log("Available Choices:");

console.log("1: Create a new ToDo Item");

console.log("2: Update an existing ToDo Item");

console.log("3: Read all ToDo Items");

console.log("4: Delete a ToDo Item by ID");

console.log("5: Delete all ToDo Items");

console.log("0: Exit");

let choice = Number.parseInt(prompt("Enter the Choice"));

switch (choice) {

case 1:

create();

break;

case 2:

update();

break;

case 3:

read();

break;

case 4:

deleteRec();

break;

case 5:

deleteAll();

break;

default:

console.log("Invalid");

}

}

}

main();

code2:

var toDoItem=[];

function create(){

console.log("creation of todoitem");

id=prompt("Enter the id number");

todoitem=prompt("Enter the todo item");

status=prompt("See the status");

let obj={

"id":id,

"todoitem":todoitem,

"status":status

}

toDoItem.push(obj);

}

function update(){

console.log("updation of items");

choose\_id=prompt("Choose a ID from the list");

let show\_id=toDoItem.find(c=>c.id===choose\_id);

console.log(show\_id.id,show\_id.todoitem,show\_id.status);

const change\_status=prompt("Do u want to change status as completed?");

if(change\_status==="yes"){

if(show\_id.status==="not completed")

{

show\_id.status="completed";

console.log(show\_id.id,show\_id.todoitem,show\_id.status);

}

else{

show\_id.status="not completed";

console.log(show\_id.id,show\_id.todoitem,show\_id.status);

}

}

else{

console.log("Continue with current status");

}

}

function read(){

console.log("Reading of items");

let completed\_arr=toDoItem.filter((s)=>s.status==="completed");

let notcompleted\_arr=toDoItem.filter((s)=>s.status==="not completed");

console.log("completed items:",completed\_arr);

console.log("Not completed items:",notcompleted\_arr);

}

function deleteRec(){

console.log("Deletion based on id:");

give\_id=prompt("Give the ID");

const objectToDelete=toDoItem.findIndex(a=>a.id===give\_id);

const del=toDoItem.splice(objectToDelete,1);

console.log("After deleting",toDoItem);

console.log("Items got deleted are",del);

}

function deleteAll(){

console.log("Delete all records with status completed:");

while(toDoItem.findIndex(b=>b.status==="completed")!=-1){

let all\_completed=toDoItem.findIndex(b=>b.status==="completed");

toDoItem.splice(all\_completed,1);

}

console.log(toDoItem);

}

function main(){

let choice;

while(true && choice!=6){

console.log("1.create 2.update 3.read 4.delete by Id 5.Delete completed 6.Exit");

choice=Number.parseInt(prompt("Enter the choice"));

switch(true){

case choice===1:

create();

break;

case choice===2:

update();

break;

case choice===3:

read();

break;

case choice===4:

deleteRec();

break;

case choice===5:

deleteAll();

break;

default:

console.log("Invalid choice")

}

}

}

main();