**JS Assignment No.3**

1. Ask the user to enter their age. If the age is less than 13, display 'Child'; if between 13 and 19, display 'Teenager'; otherwise display 'Adult'.

age = prompt("Enter your age")

if (age < 13) {

    console.log("Child")

} else if (age >= 13 && age <= 19) {

    console.log("teenager")

} else {

    console.log("adult")

}

1. Write a program that asks the user to enter a number. If the number is divisible by both 2 and 3, show 'Divisible by both'. Otherwise, show 'Not divisible by both'.

User\_Number = prompt("Enter your Number")

if (User\_Number % 2 === 0 && User\_Number % 3 === 0) {

    console.log("divisible by both")

} else {

    console.log("Not divisible by both")

}

1. Create a program that asks the user for a password. If it matches 'saylani123', show 'Access Granted', otherwise show 'Access Denied'.

password = prompt("Enter your password")

if (password === "saylani123") {

    console.log("Access granted")

} else {

    console.log("Access not granted")

}

1. Ask the user to enter two numbers. Display the larger number using an if…else statement.

Number\_1 = prompt("enter first number")

Number\_2 = prompt("enter Second number")

if (Number\_1 > Number\_2) {

    console.log(Number\_1)

} else {

    console.log (Number\_2)

}

1. Create an array of 5 colors. Display the first and last color from the array in an alert.

five\_Colors = ["Red","blue","purple","black"," white"]

alert( five\_Colors[0] + five\_Colors[4] )

1. Make an array of fruits with 3 items. Add one more fruit at the end using .push() and show the new array in console.

fruits = ["banana","grapes","apples"]

fruits.push("mango")

console.log(fruits)

1. Write a program that removes the first element of an array of city names and then prints the updated array.

city = ["victoria","melbourne","Sydney"]

city.shift()

console.log(city)

1. Create an array of numbers [10, 20, 30, 40, 50]. Use .splice() to remove the middle number (30) and display the array.

Numbers = [10,20,30,40,50]

Numbers.splice(2,1)

console.log(Numbers)

1. Make an array [100, 200, 300, 400, 500]. Use .slice(1, 4) and show the result in the console.

Numbers = [100,200,300,400,500]

slice\_Numbers = Numbers.slice(1,4)

console.log(slice\_Numbers)

1. Ask the user to enter 3 subjects’ marks. Store them in an array. Calculate the total and average using array values and display it.

Maths\_marks = prompt("maths marks")

English\_marks = prompt("english marks")

computer\_marks = prompt("computer marks")

Subjects\_marks = [ Maths\_marks , English\_marks , computer\_marks ]

console.log(Subjects\_marks)

Subjects\_marks[0] = Number(Subjects\_marks[0])

Subjects\_marks[1] = Number(Subjects\_marks[1])

Subjects\_marks[2] = Number(Subjects\_marks[2])

total = (Subjects\_marks[0]+Subjects\_marks[1]+Subjects\_marks[2])

console.log(total)

average =((Subjects\_marks[0]+Subjects\_marks[1]+Subjects\_marks[2])/3)

console.log(average)

1. Write a program that asks the user for a month number (1–12). Use if…else if statements to display the season ('Winter', 'Spring', 'Summer', 'Autumn').

User\_month= prompt("enter your month number (1-12)")

if (User\_month >= 1 && User\_month <= 3) {

    console.log("Winter")

} else if (User\_month >= 4 && User\_month <= 6) {

    console.log("Spring")

} else if (User\_month >= 7 && User\_month <= 9) {

    console.log("summer")

} else {

    console.log("Autumn")

}

1. Create a loop that prints all even numbers from 2 to 20 in the console.

for (let i = 0; i <= 20; i++) {

  if (i % 2 == 0) {

    console.log(i)

  }

}

1. Use a for loop to display each element of the array ['Ali', 'Sara', 'Ahmed', 'Ayesha'].

var names = ['Ali', 'Sara', 'Ahmed', 'Ayesha']

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

  console.log(names[i])

}

1. Write a program that asks the user to enter a number and then displays its multiplication table using a loop (up to 10).

table = prompt("enter a number")

for (let i = 1; i <= 10; i++) {

  Number(table)

  console.log(table, "x", i ,'=',table\*i)

}

1. Create an array [2, 4, 6, 8, 10]. Use a for loop to calculate the sum of all numbers and print it.

User\_numbers = [2, 4, 6, 8, 10];

Num\_total = 0;

for (let i = 0; i < User\_numbers.length; i++) {

    Num\_total += User\_numbers[i];

}

console.log("Sum of all array numbers:", Num\_total);

1. Ask the user to enter a name. If the name is 'Alice' or 'Bob', show 'Welcome!'. Otherwise, show 'You are not authorized.'.

User\_Name = prompt("enter your name")

if (User\_Name == "Alice" || User\_Name == "Bob") {

  console.log("Welcome!")

} else {

  console.log("You are not authorized.")

}

1. Write a program that uses nested if statements to check if a number is positive and also even. If both are true, display 'Positive Even'. If only positive, display 'Positive Odd'. Otherwise show 'Negative number'.

User\_Num = prompt("enter a number")

if (User\_Num >= 0) {

  if (User\_Num % 2 === 0) {

      console.log("Number is positive Even")

  } else {

      console.log("The number is positve Odd")

  }

} else {

  console.log("the number is negative")

}

1. Create an array ['Apple', 'Banana', 'Cherry', 'Date', 'Elderberry']. Use .splice() to insert 'Mango' at the 2nd index and show the new array.

fruits = ['Apple', 'Banana', 'Cherry', 'Date', 'Elderberry']

fruits.splice(2,0,"mango")

console.log(fruits)