**Date 2nd sep loops task**

**Task 1: Print Numbers from 1 to 10**

**Instructions:**

**Use a for loop to print numbers from 1 to 10.**

**Display the numbers in the console.**

**Ans**

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

    console.log(i);

}

**o/p: 1 2 3 4 5 6 7 8 9 10**

**Task 2: Print Even Numbers from 1 to 20**

**Scenario: Write JavaScript code that prints all even numbers from 1 to 20.**

**Instructions:**

**Use a for loop to iterate from 1 to 20.**

**Use an if statement to check if a number is even and print it.**

**Ans**

for(i=1;i<=20;i++){

    if(i%2==0){

        console.log(i)

    }

}

**o/p:**

**2 4 6 8 10 12 14 16 18 20**

**Task 3: Print Multiples of 5 up to 50**

**Scenario: Write JavaScript code that prints all multiples of 5 up to 50.**

**Instructions:**

**Use a for loop to iterate from 1 to 50.**

**Use an if statement to check if a number is a multiple of 5 and print it.**

**Ans**

for(i=1;i<=50;i++){

    console.log("5\*" + i +"="+ 5\*i);

}

**0/p:**

**5\*1=5**

**5\*2=10**

**upto**

**5\*50=250**

**Task 4: Sum of Numbers from 1 to 100**

**Scenario: Write JavaScript code that calculates the sum of numbers from 1 to 100.**

**Instructions:**

**Use a for loop to iterate from 1 to 100.**

**Add each number to a sum variable and print the total sum.**

**Ans**

sum=0;

for(i=1;i<=100;i++){

sum=sum+i;

}

console.log("the sum of 1 to 100 numbers is =  "+sum);

**o/p: the sum of 1 to 100 numbers is =  5050**

**Task 5: Create a JavaScript program that calculates the factorial of a given number using a for loop.**

**Instructions:**

**Use a for loop to multiplication the given**

**Take prompt from the user**

**hint: take count value as 1;**

**Ans**

var j=+prompt("enter a value to find factorial")

count=1;

for(i=1;i<=j;i++){

count=count\*i;

}

console.log("the factorial value of "+ j +" is =" +count);

**o/p:If the user entered 5**

**the factorial value of 5 is =120**

**If the user entered 10**

**the factorial value of 10 is = 3628800**

**Task 6: Print Numbers in Reverse Order**

**Scenario: Write JavaScript code that prints numbers from 10 to 1 in reverse order.**

**Instructions:**

**Use a for loop to count down from 10 to 1.**

**Display the numbers in the console.**

**Ans**

for(i=10;i>=1;i--){

    console.log(i);

}

**o/p: 10 9 8 7 6 5 4 3 2 1**

**Task 7:Write a JavaScript script that uses nested loops to**

**print a multiplication table for numbers 1 through 5.**

**Instructions:**

**use for loop**

**use nested loop**

**Ans**

for (i = 1; i <= 5; i++) {

  for (j = 1; j <= 10; j++) {

    console.log(i +"\*" +j+"="+(i\*j));

  }

  console.log("\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*");

}

**o/p:**

**it will print 1 to 5 tables**