# Exercise : 7

### Question 1

Print 1 to 100

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

console.log(i);

}

### Question 2

Print all Odd numbers from 1 to 100

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

if(i%2!==0){

console.log(i);

}

}

### Question 3

Print all Even numbers from 1 to 100

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

if(i%2===0){

console.log(i);

}

}

### Question 4

Print all numbers which are divisible of 5 in 1 to 100

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

if(i%5===0){

console.log(i);

}

}

### Question 5

Print all numbers which are divisible of 5 and 15 in 1 to 100

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

if(i%5===0 && i%15===0 ){

console.log(i);

}

}

### Question 6

Print 2's table

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

if(i%2===0){

console.log(i);

}

}

### Question 7

Ask user a question "How many times do you want to print Hello World?" and then print Hello World that number of times

let ans = Number(prompt( "How many times do you want to print Hello World?"))

for(let i = 1;ans >= i;i++){

console.log(i+"hello world");

}

### Question 8

Calculate sum of all numbers from 1 to 100

let sum = 0;

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

sum = sum+i

}console.log(sum);

### Question 9

Calculate sum of all odd numbers from 1 to 100

let oddsum = 0;

for(let num1 =1; num1 <=100; num1++ ){

if(num1%2!==0){

oddsum = oddsum+ num1

}

}console.log(oddsum);

### Question 10

Calculate sum of all even numbers from 1 to 100

let evensum = 0;

for(let num1 =1; num1 <=100; num1++ ){

if(num1%2===0){

evensum = evensum+ num1

}

}console.log(evensum);

### Question 11

Print 1,2,4,8,16,32,64.......upto 2048

for(let i = 1;i<= 2048; i \*= 2){

console.log(i)

}

### Question 12

Print

1,2,3,4,5,6,7,8,9,10

11,12,13,14,15,16,17,18,19,20

.

.

......................99,100

### Question 13

Print 1 to 100, but with a specific condition. If a number is divisible by both 3 and 5, it logs "fizzbuzz" to the console instead of the number itself.

for(let num = 1; num <= 100;num++){

if(num%3 ===0 && num%5=== 0){

console.log("fizzbuzz");

}

}

### Question 14

print 10 table like this

2\*1=2

2\*2=4

2\*3=6

2\*4=8

2\*5=10

.

.

.

2\*10=20

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

let multiple = num\*2

console.log( `2\*${num}=${multiple}`);

}

### Question 15

Run a loop from 1 to 50

From 1 to 10 print "A"

From 11 to 20 print "B"

From 21 to 30 print "C"

From 31 to 40 print "D"

From 41 to 50 print "E"

for (let num = 1; num <= 50; num++) {

if (num <= 10) {

console.log(num + " A");

} else if (num <= 20) {

console.log(num + " B");

} else if (num <= 30) {

console.log(num + " C");

} else if (num <= 40) {

console.log(num + " D");

} else if (num <= 50) {

console.log(num + " E");

}

}

### Question 16

Run a loop from 50 to 1

From 50 to 41 print "A"

From 40 to 31 print "B"

From 30 to 21 print "C"

From 20 to 11 print "D"

From 10 to 1 print "E"

for(let num = 50;num >= 1;num--){

if(num >=41){

console.log(num+"A");

}else if(num >=31){

console.log(num+"B");

}else if(num >=21){

console.log(num+"C");

}else if(num >=11){

console.log(num+"D");

}else if(num >=1){

console.log(num+"E");

}

}

### Question 17

Print below series 5 25 125.. till number is less than equal to 10000

for(let num = 5; num <= 10000;num \*= 5 ){

console.log(num);

}

### Question 18

Print below series 3,6,9,12... till number is less than equal to 500

for(let num = 3; num <= 500; num += 3){

console.log(num);

}

### Question 19

print below series

120

221

322

423

524

625

726

827

928

1029

for(let num = 120; num <=1029; num += 101){

console.log(num);

}

### Question 20

print below series 100 95 90 85 80 ... till 0

for(let num = 100; num >=0;num -=5){

console.log(num);

}

### Question 21

Number 70 is divisible by which numbers till 70? Find out and print those numbers

for(let num = 1; num <=70;num++){

if(70% num=== 0){

console.log(num);

}

}

# while loop Exercise

### Question 22

Write a while loop that logs the numbers 1 to 10 in the console.

let num =1 ;

while(num <= 10){

console.log(num);

num++

}

### Question 23

Calculate sum of all numbers from 1 to 10

let sum = 0;

let i = 1

while(i <= 10){

sum = sum+i

i++

}console.log(sum);

### Question 24

Counting down from 10 to 1

let num = 10;

while(num >= 1){

console.log(num);

num--

}

### Question 25

Print 2's table

let num = 2;

while(num <=20){

if(num%2===0){

console.log(num);

}num++

}

### Question 26

Calculate sum of all odd numbers from 1 to 100

let num = 1

let sum = 0 ;

while (num <=100) {

if(num%2 === 1 ){

sum +=num

}

num++

}

console.log(sum);

# do while loop

### Question 27

Write a do...while loop that logs the numbers 1 to 5 in the console

let i = 1

do {

console.log(i);

i++

} while (i <= 5);

### Question 28

Counting down from 10 to 1

let num = 10

do {console.log(num);

num--

} while (num >= 1);

### Question 29

Calculate sum of all numbers from 1 to 10

let sum = 0;

let num = 1

do {

sum +=num

num++

} while (num <= 10);

console.log(sum);

### Question 30

Print 2's table

let num = 2

do {

if(num%2===0){

console.log(num);

}

num++

} while (num <= 20);

### Question 31

Ask user a question "How many times do you want to print Hello World?" and then print Hello World that number of times

let ans = Number(prompt("How many times do you wnat to print Hello world? "))

let num = 1;

do {

console.log("Hello world"+num);

num++

} while (num <= ans);

### Question 32

Calculate sum of all even numbers from 1 to 100

let sum = 0;

let num = 1

do {

if(num%2===0){

sum +=num

}

num++

} while (num <= 100);

console.log(sum);

# Pattern questions

### Question 33

Print pattern

1

11

111

1111

11111

for(let num = 1; num <= 5;num++){

let blank = "";

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

blank = blank+"1"

}

console.log(blank)

}

### Question 34

Print Pattern

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for(let num = 1; num <= 3;num++){

blank = "";

for(let i = 1; i <= 3 ;i++){

blank += "-"

}

console.log(blank);

}

### Question 35

Print pattern

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for(let num = 1; num <= 4; num++){

blank = "";

for(let i = 1; i<= 3; i++){

blank += "\*"

}

console.log(blank);

}

### Question 36

Print Pattern

12345

1234

123

12

1

for(let num = 5; num >= 1 ; num--){

blank = "";

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

blank += i

}

console.log(blank);

}

### Question 37

Print pattern

54321

5432

543

54

5

for(let num = 1; num <= 5;num++){

blank = "";

for(let i = 5; i >=num ;i--){

blank +=i

}

console.log(blank);

}

### Question 38

Print pattern

54321

4321

321

21

1

for(let num = 5;num >= 1; num--){

blank = "";

for(let i = num;i >= 1; i--){

blank += i

}

console.log(blank);

}

### Question 39

Print pattern

$$

$$

$$

$$

$$

$$

for(let num = 1; num <=6; num++){

// blank = "";

// for(let i = 1; i <=2; i++){

// blank +="$"

// }

// console.log(blank);

// }

### Question 40

Print pattern

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\*\*\*\*\*

for(let num = 1; num <= 5; num++){

blank = "";

for(let i = num; i <= 5; i++){

blank += "\*"

}

console.log(blank);

}

for(let num = 1; num <= 5; num++){

blank = "";

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

blank += "\*"

}

console.log(blank);

}

### Question 41

Print pattern

10987654321

987654321

87654321

7654321

654321

54321

4321

321

21

1

for(let num = 10; num >= 1; num--){

let blank ="";

for(let i = num; i >= 1; i--){

blank += i

}

console.log(blank);

}

### Question 42

Print pattern

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for(let num =1 ; num <= 5; num++){

let blank = "";

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

blank += "\*"

}

console.log(blank);

}

for(let num =1 ; num <= 4; num++){

let blank = "";

for(let i = num ; i <= 4; i++){

blank += "\*"

}

console.log(blank);

}

### Question 43

Print pattern

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