Cohort 2.0 : LOOPS and CONDITIONS ASSIGNMENT

Level - 1

7. Ask user's age and check if eligible to vote
If age >= 18 → "Eligible", else → "Not eligible"

```
let input =prompt("Enter your age");
console.log("Raw input : ",input);

if(input === null){
    console.error("you cancel the input");
}

else{
    let trimmed = input.trim();
    console.log("Trimmed input :",trimmed);

    let age = Number(trimmed);
    console.log("converted number :",age);
    console.log("Is NaN?: ",isNaN(age));

    if(trimmed === "" || isNaN(age)){
        console.log("Invalid Input");
    }else if(age < 0){
        console.error("age cannot be Negative");
    }
    else if(age >= 18){
        console.log("you are Eligible for vote");

    }else{
        console.log("you are not Eligible to Vote");
    }

}
```

8. Print multiplication table of 5
Use loop to print 5 × 1 to 5 × 10.

```
for(i=1;i<=10;i++){
    console.log(`5 x ${i} = ${5*i}`)
}
```

9. Count how many numbers between 1 and 15 are greater than 8
Loop and count conditionally.

```
let count =0;
for(let i=1;i<=15;i++){
    if(i>8){
        count++;
    }
}
console.log(`Count how many numbers between 1 and 15 are greater than 8 is : ${count}`);
```

10. Ask user for password and print access status
Hardcoded correct password. Compare with user input.

```
let password = "Supriya#123";
let userPass = prompt("enter the password");

if(userPass === null){
console.error("you cancel the password");
}
else if(userPass.trim() === ""){
    console.error("password can't be Empty");
}
else if(userPass === password){
    console.log("Access Granted");
}else{
    console.log("Access denied | Incorrect password");
}

// Level 2 – Slightly Tougher but Logical

/*
11. Allow only 3 attempts to enter correct password
If user gets it right early, stop. If not → “Account locked”

let password = "Sup123";

let count=0;
while(count < 3){
```

```
let userPass = prompt("enter the Password");
// 1st case
if(userPass === null){
    console.error("you press the cancel button");
    break; //exits
}
else{
    if(userPass.trim()===""){
        console.error("password can't be Empty");
        continue; //don't count this as a attempt
    }
    else if(password === userPass){
        console.log("password granted");
        break;
    }else{
        console.log("Wrong Password");
        count++;
    }
}

if(count === 3 && userPass !== password){
    console.log("Account Locked");
}
}
```

12. Ask user for words until they type “stop”. Count how many times they typed “yes”
Loop until "stop" is typed. Count "yes".

```
let words = prompt("enter the words");
let count = 0;
while(words !== 'stop'){

    //condition
    if(words === 'yes')count++;
    words = prompt("enter the words");
}
console.log("types yes" +count +"times");
```

13. Print numbers divisible by 7 from 1 to 50
Use modulo % and loop.

```
for(let i=1;i<=50;i++){
    if(i % 7 ===0)
        console.log(i);
}
```

14. Sum of all odd numbers from 1 to 30
Add only odd numbers. Print final sum.

```
let sum =0;
for(let i=1;i<=30;i++){
    if(i % 2 !== 0){
        sum =sum +i;
    }
}
console.log(sum);

*/

/*
 15. Keep asking number until user enters an even number
Use while loop. Stop only if input is even.



let num = prompt("enter the number");
while(num %2 !== 0){
 num = prompt("enter the number");
}
```

16. Print numbers between two user inputs
Input start and end using prompt() → print all between.

```
let start = +prompt("enter the number loop start from : ");
let end = +prompt("enter the number where the loop end");

if (start > end) {
  console.error("Start loop can't be greater than end loop");
} else {
  while (start <= end) {
    console.log(start);
    start++;
  }
}
```

17. Print only first 3 odd numbers from 1 to 20
Use loop. Stop with break after 3 odd prints.

```
let count = 0;

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

```
    if(i%2 !==0){
        count++;
        console.log(i)
    }

    if(count === 3)
        break;

}
```

18. Ask user 5 numbers. Count how many are positive
Use loop + condition + counter.

```
let cnt = 0;

for(let i=1;i<=5;i++){
    let num =prompt("enter the number");
    if(num >= 0){
        cnt++;
    }


}
console.log("total positive number is :"+cnt);
```

19. ATM Simulator – Allow 3 withdrawals
Start with ₹1000 balance. Ask withdrawal amount 3 times.
If enough balance → deduct
Else → print “Insufficient balance”

```
*/

let balance = 1000;
for(let i=1;i<=3;i++){
    let withdraw = Number(prompt(`attempt ${i} : enter withdraw amount`));

    if(withdraw < 0){
        console.error("Withdraw amount can't be negative!");
        break;
    }

    if(withdraw <= balance){
        balance = balance- withdraw;//remaining amount
        console.log(`${withdraw} withdrawn successfully, Remaining amount : ${balance}`);

    }
    else{
        console.log("Insufficient balance");
```

```
    }
}

console.log("no more withdrawals allowed");
```