JAVASCRIPT TASK-10

1.problem-1

Given a variable score, use a ternary operator to determine the performance level:

-" Excellent" if the score is 90 or above.

-" Good" if the score is between 68 and 89

-" Needs Improvement" if score is below 68.

****Test Cases: ****

1.Input** score=95**

****Expected Output** 'Excellent'**

```
var score = 95;
score >= 90
  ? console.log("Excellent")
  : (score <= 89 && score >= 60)
  ? console.log("good"):console.log("Needs Improvement")
```

2. **Input score=75**

****Expected Output** 'Good'**

```
var score = 75;
score >= 90
  ? console.log("Excellent")
  : (score <= 89 && score >= 60)
  ? console.log("good"):console.log("Needs Improvement")
```

3.Input** score=50**

****Expected Output** 'Needs Improvement'**

```
var score = 50;
score >= 90
  ? console.log("Excellent")
  : (score <= 89 && score >= 60)
  ? console.log("good"):console.log("Needs Improvement")
```

2.Problem-2

Given a variable day, use a ternary operator to check if it's a weekend;

-” weekend” if day is ‘Saturday’ or ‘Sunday’.

-”weekday”for any other day.

****Test Cases: ****

1.Input** day=’Saturday’**

****Expected Output** ‘weekend’**

```
var day="saturday";
 (day=="saturday" ||day=="sunday")?console.log("Weekend"):console.log("weekday")
```

2. **Input day=’Monday’**

****Expected Output** ‘weekday’**

```
var day="monday";
 (day=="saturday" ||day=="sunday")?console.log("Weekend"):console.log("weekday")
```

3.Input** day=’Sunday’**

****Expected Output** ‘Weekday’**

```
var day="monday";
 (day=="saturday" ||day=="sunday")?console.log("Weekend"):console.log("weekday")
```

3.problem-3

Given a variable Input String: use a ternary operator to check if it is a palindrome. A string is considered a palindrome if it reads the same forwards and backwards.

-Output** ‘Palindrome’ if the string is a palindrome.**

-’Not a ‘Palindrome 'otherwise

****Test Cases: ****

1.Input** input string=” madam”**

****Expected Output** ‘palindrome’**

```
var inputstring="madam";
var str="";
```

```
for(i =inputstring.length - 1; i>=0; i--) {
    str=str+inputstring[i];
}
console.log(str);
inputstring==str ? console.log("palindrome"): console.log("Not a palindrome")
```

2. **Input input string=" hello"**

****Expected Output** 'not a palindrome'**

```
var inputstring="hello";
var str1="";
for(i =inputstring.length - 1;i>=0;i--) {
    str1=str1+inputstring[i];
}
console.log(str1);
inputstring==str1? console.log("palindrome"):console.log("Not a palindrome")
```

3.Input** input string=" racecar"**

****Expected Output** 'Palindrome'**

```
var inputstring="racecar";
var str2="";
for(i =inputstring.length - 1; i>=0; i--) {
    str2=str2+inputstring[i];
}
console.log(str2);
inputstring==str2? console.log("palindrome"):console.log("Not a palindrome")
```

4.Input** input string=" world"**

****Expected Output**'Not a Palindrome'.**

```
var inputstring="world";
var str3="";
for(i =inputstring.length - 1;i>=0;i--) {
    str3=str3+inputstring[i];
}
console.log(str3);
inputstring==str3 ? console.log("palindrome"):console.log("Not a palindrome")
```

4.Problem 4

Input: HELLO

Output:

H

HE

HEL

HELL

HELLO

```
var str='HELLO'
var str1=""
for(i in str) {
    str1=str1+str[i]
    console.log(str1)
}
```