

# PanaVerse Assginment

## Question#03:

3. Name Cases: Store a person's name in a variable, and then print that person's name in lowercase, uppcase, and titlecase.

## Solution:

### Step#01:

What we need(Requirements):

1. A person's name.
2. Display name of that person in following cases.
  - Lowercase(all letters are small).
  - Uppercase(all letters are capital).
  - Titlecase(capitalize initials of every word).

### Step#02:

Let's do code.

Code:

Initialize string variable to store person's name.

```
let personName:string='Elon Musk';    //store person's name in block variable.
```

Now we have a build js function called **toLowerCase()** that will convert all letters in string to the lowercase.

```
let personName:string='Elon Musk';    //store person's name in block variable.  
console.log(personName.toLowerCase()); //convert into lowercase
```

Now we have a build js function called **toUpperCase()** that will convert all letters in string to the uppcase.

```
let personName:string='Elon Musk';    //store person's name in block variable.  
console.log(personName.toUpperCase()); //convert into uppcase
```

Now for titlecase we create an array(char) then copy the string on this array because string is a primitive datatype immutable in typescript if you try to rewrite or change value at any specific index of string, it will throw error. So we can change the value on specific index in array.

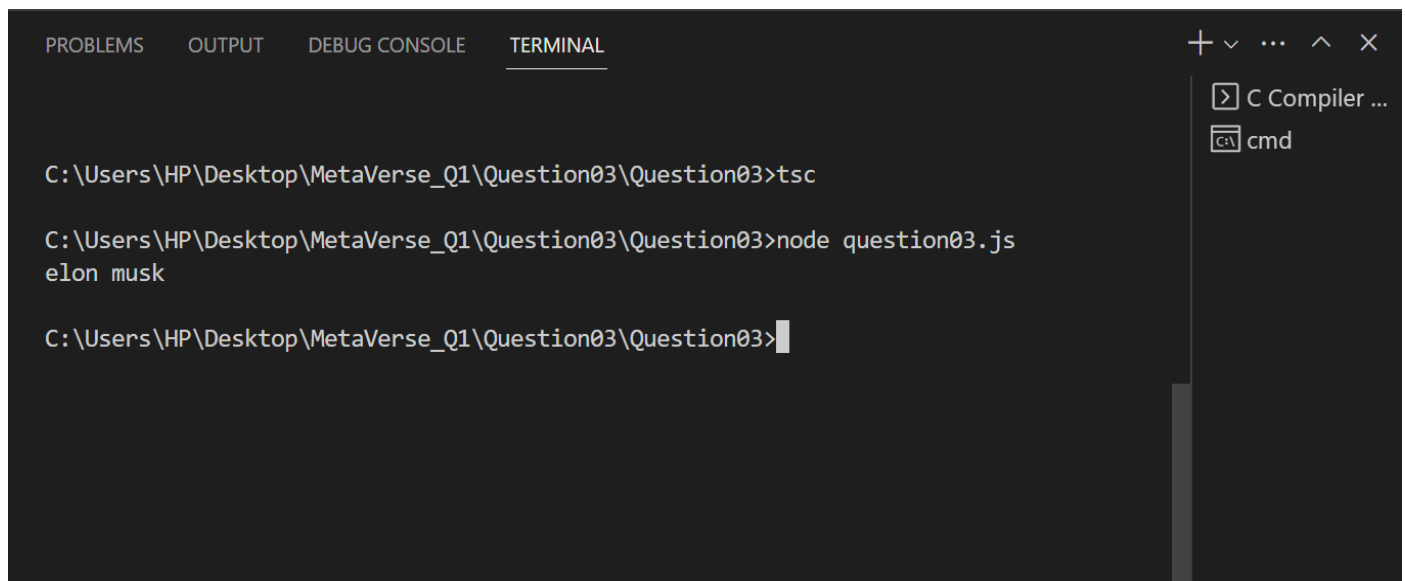
```
let temp=[];
{
for(let i=0;personName[i];i++){
    if(i==0){
        temp[i]=personName[i].toUpperCase();
    }
    else if(personName[i]==' '){
        temp[i]=' ';
        temp[i+1]=personName[i+1].toUpperCase();
        i++;
    }
    else{
        temp[i]=personName[i];
    }
}
personName=temp.join('');
console.log(personName);
}
```

## Step#03:

Let's run the code.

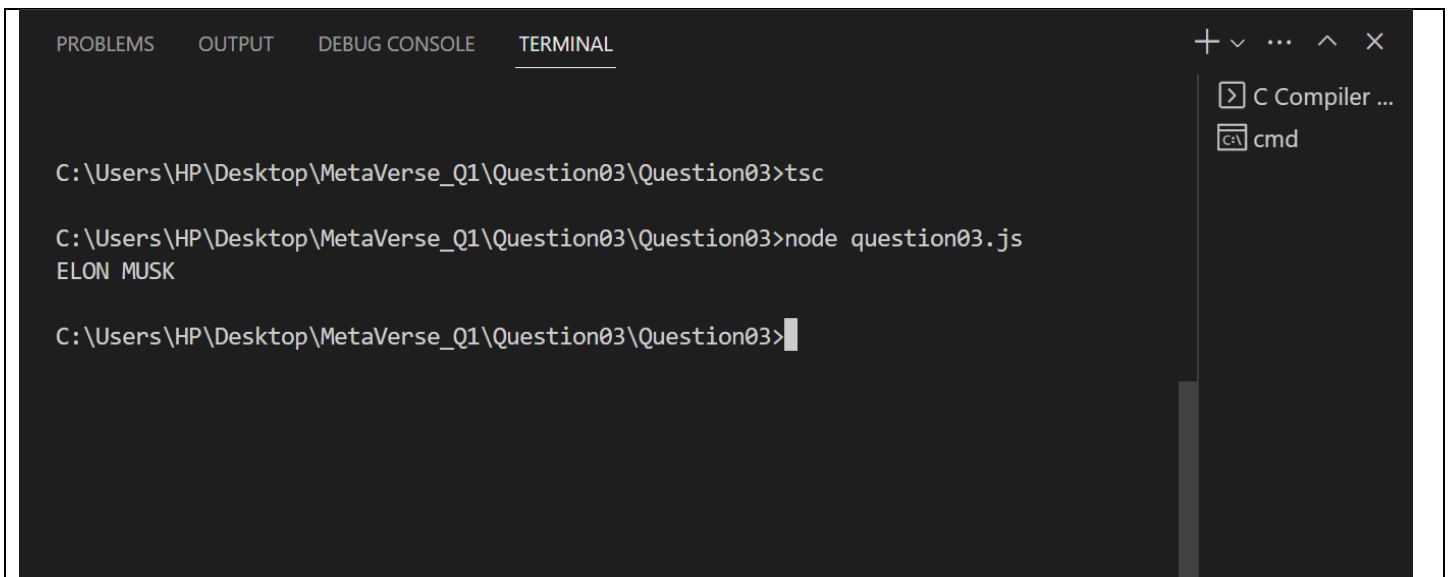
Output/Result:

Lowercase.



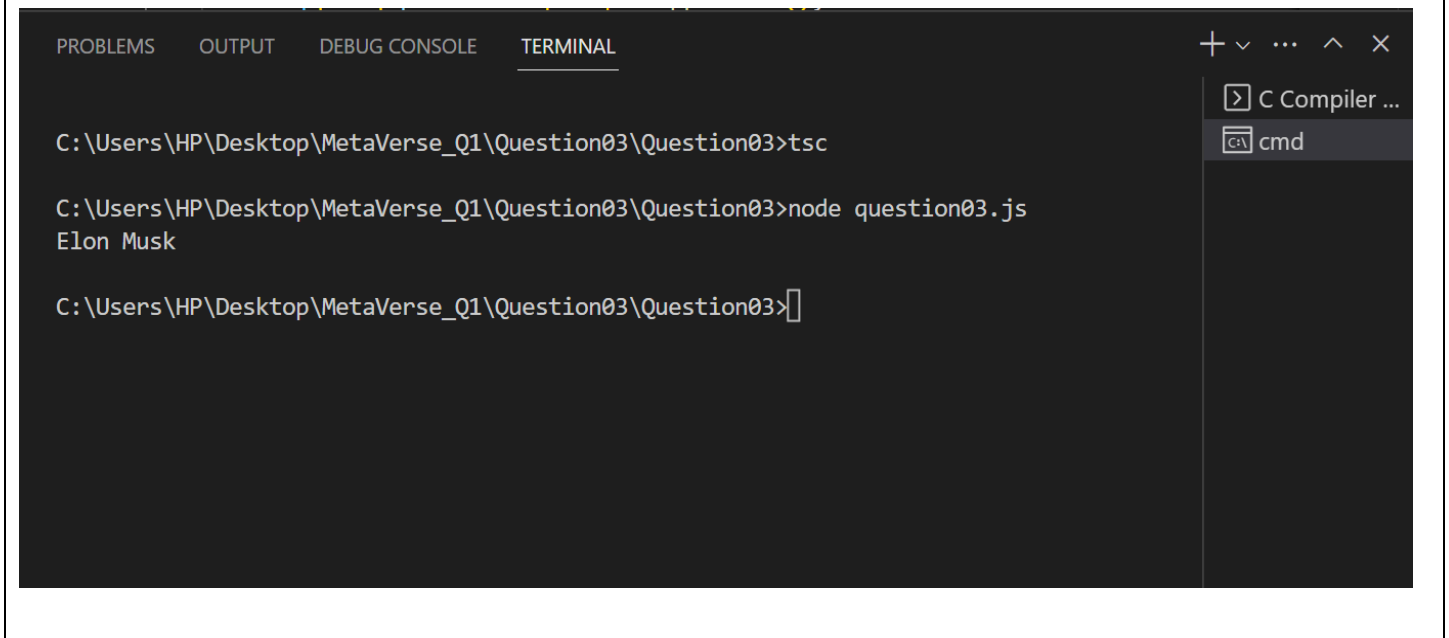
```
PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL
C:\Users\HP\Desktop\MetaVerse_Q1\Question03\Question03>tsc
C:\Users\HP\Desktop\MetaVerse_Q1\Question03\Question03>node question03.js
elon musk
C:\Users\HP\Desktop\MetaVerse_Q1\Question03\Question03>
```

Uppercase.



```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
C:\Users\HP\Desktop\MetaVerse_Q1\Question03\Question03>tsc
C:\Users\HP\Desktop\MetaVerse_Q1\Question03\Question03>node question03.js
ELON MUSK
C:\Users\HP\Desktop\MetaVerse_Q1\Question03\Question03>
```

Titlecase.



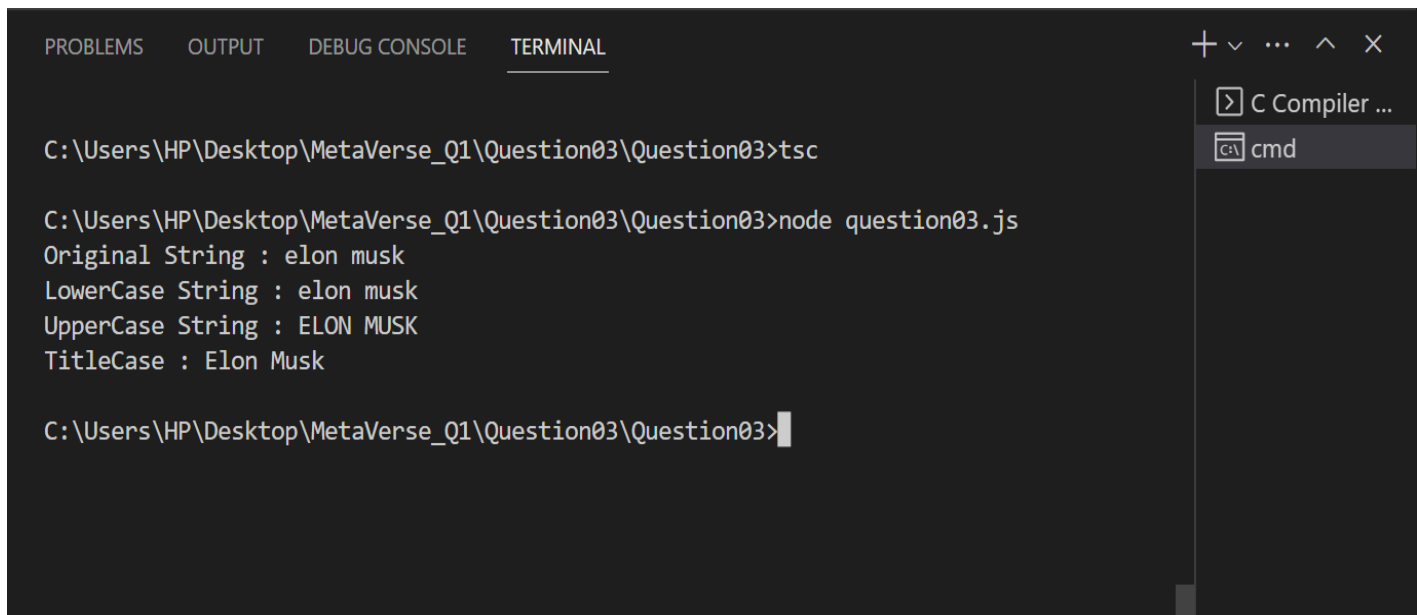
```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
C:\Users\HP\Desktop\MetaVerse_Q1\Question03\Question03>tsc
C:\Users\HP\Desktop\MetaVerse_Q1\Question03\Question03>node question03.js
Elon Musk
C:\Users\HP\Desktop\MetaVerse_Q1\Question03\Question03>
```

## Full Code Question03:

```
let personName: string = "elon musk"; //store person's name in block variable.
console.log(
  "Original String : " +
    personName +
    "\nLowerCase String : " +
    personName.toLowerCase() +
    "\nUpperCase String : " +
    personName.toUpperCase()
); //show name in lower & upper case.
```

```
// convert into titlecase.
let temp = [];
{
  for (let i = 0; personName[i]; i++) {
    if (i == 0) {
      temp[i] = personName[i].toUpperCase();
    } else if (personName[i] == " ") {
      temp[i] = " ";
      temp[i + 1] = personName[i + 1].toUpperCase();
      i++;
    } else {
      temp[i] = personName[i];
    }
  }
  personName = temp.join("");
  console.log("TitleCase : "+personName);
}
```

## Full Output Question03:



```
PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL

C:\Users\HP\Desktop\MetaVerse_Q1\Question03\Question03>tsc

C:\Users\HP\Desktop\MetaVerse_Q1\Question03\Question03>node question03.js
Original String : elon musk
LowerCase String : elon musk
UpperCase String : ELON MUSK
TitleCase : Elon Musk

C:\Users\HP\Desktop\MetaVerse_Q1\Question03\Question03>
```