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Guvi Zenclass Task-3

Write programs in anonymous function and IIFE.

1. Print odd numbers in an array

```
A. var a=[1,2,3,4,5,6];
    //Anonymous Function
    var odd = function (arr){
    for(i=0;i<arr.length;i++){
        if(arr[i]%2==0){
            arr.splice(i,1);
            i--;
        }
    }
    return arr;
};
console.log(odd(a));
//IIFE function
(function (arr){
    for(i=0;i<arr.length;i++){
        if(arr[i]%2==0){
            arr.splice(i,1);
            i--;
        }
    }
    console.log(arr);
})(a);
```

2. Convert all the strings to title caps in a string array.

```
A. var a=['ant','bat','cat','dog'];
//Anonymous function
var caps = function (arr){
    for(i=0;i<arr.length;i++){
        s=arr[i].split("");
        s[0]=s[0].toUpperCase();
        arr[i]=s.join("");
    }
    return arr;
};
console.log(caps(a));
//IIFE function
(function (arr){
```

```

    for(i=0;i<arr.length;i++){
        s=arr[i].split("");
        s[0]=s[0].toUpperCase();
        arr[i]=s.join("");
    }
    console.log(arr);
})(a);

```

3. Sum of all numbers in an array.

```

A. var a=[1,2,3,4,5];
//Anonymous function
var sum = function (arr){
    let s=0;
    for(i=0;i<arr.length;i++)
        s+=arr[i];
    return s;
};
console.log(sum(a));
//IIFE function
(function (arr){
    let s=0;
    for(i=0;i<arr.length;i++)
        s+=arr[i];
    console.log(s);
})(a);

```

4. Return all prime number.

```

A. var a=[1,2,3,4,5,6,7];
//Anonymous function
var prime = function (arr){
    let s=[],count=0;
    for(i=0;i<arr.length;i++){
        for(j=1;j<=arr[i];j++){
            if(arr[i]%j==0)
                count++;
        }
        if(count==2)
            s.push(arr[i])
        count=0;
    }
    return s;
};
console.log(prime(a));
//IIFE function

```

```

(function (arr){
  let s=[],count=0;
  for(i=0;i<arr.length;i++){
    for(j=1;j<=arr[i];j++){
      if(arr[i]%j==0)
        count++;
    }
    if(count==2)
      s.push(arr[i])
    count=0;
  }
  console.log(s);
})(a);

```

5. Return all palindromes.

A. var a=[11,22,31,41,55,16,17];

//Anonymous function

```

var pal = function (arr){
  let s=[],count=0;
  for(i=0;i<arr.length;i++){
    n=arr[i],rev=0;
    while(n!=0){
      rem=n%10;
      rev=rev*10+rem;
      n=Math.floor(n/10);
    }
    if(rev!=arr[i]){
      arr.splice(i,1);
      i--;
    }
  }
  return arr;
};

```

console.log(pal(a));

//IIFE function

```

(function (arr){
  let s=[],count=0;
  for(i=0;i<arr.length;i++){
    n=arr[i],rev=0;
    while(n!=0){
      rem=n%10;
      rev=rev*10+rem;
      n=Math.floor(n/10);
    }
  }
}

```

```

    }
    if(rev!==arr[i]){
        arr.splice(i,1);
        i--;
    }
}
console.log(arr);
})(a);

```

6. Return the median of two sorted arrays of the same size.

```

A. var a=[1,3,5,7,9],b=[2,4,6,8,10],c=0;
while(c<b.length)
a.push(b[c++]);
a.sort(function(a,b){return a-b});
//Anonymous function
var median = function (arr){
    n=Math.floor(arr.length/2);
    avg=(arr[n]+arr[n-1])/2;
    return avg;
};
console.log(median(a));
//IIFE function
(function (arr){
    n=Math.floor(arr.length/2);
    avg=(arr[n]+arr[n-1])/2;
    console.log(avg);
})(a);

```

7. Remove Duplicates from an array.

```

A. var a=[1,3,5,1,9,7,9]
//Anonymous function
var median = function (arr){
    for(i=0;i<arr.length-1;i++){
        for(j=i+1;j<arr.length;j++){
            if(arr[i]==arr[j]){
                arr.splice(j,1);
                j--;
            }
        }
    }
    return arr;
};
console.log(median(a));

```

```
//IIFE function
(function (arr){
  for(i=0;i<arr.length-1;i++){
    for(j=i+1;j<arr.length;j++){
      if(arr[i]==arr[j]){
        arr.splice(j,1);
        j--;
      }
    }
  }
  console.log(arr);
})(a);
```

8. Rotate an array by k times.

A. var a=[1,3,5,1,9,7,9],k=12;

while(k>a.length)

k=k-10;

console.log(a<<2);

//Anonymous function

var median = function (arr,k){

let j=0,output=[];

for(i=0;i<arr.length;i++){

if(k<arr.length)

output[k++]=arr[i];

else

output[j++]=arr[i];

}

return output;

};

console.log(median(a,k));

//IIFE function

(function (arr,k){

let j=0,output=[];

for(i=0;i<arr.length;i++){

if(k<arr.length)

output[k++]=arr[i];

else

output[j++]=arr[i];

}

console.log(output);

})(a,k);