

## JavaScript Assignment-2

1. Prime numbers from 1 to 50.

```
for(var i=2;i<=50;i++)
{
    var flag=true
    for(var j=2;j<=i-1;j++){
        if(i%j==0)
        {
            flag=false;
            break;
        }
    }
    if(flag==true)
    {
        console.log(i);
    }
}
```

2. **Triangular number**

**sequence.(1,3,6,10,15,21,...)=>(1,1+2=3,1+2+3=6,1+2+3+4=10,...)**

```
let count=0;
let j=0;
let v;
for(var i=1;i<=10;i++)
{
    v=j+count+i;
    j=v;
    console.log(v)
}
```

3. **Print the pattern like as follows for a given input as 6?**

```
*  
  
**  
  
***  
  
****  
  
*****  
  
*****
```

```
let n=5;  
let string=" ";  
let i=0;  
let j=0;  
for(let i=0;i<=n;i++)  
{  
  for(let j=0;j<i;j++)  
  {  
    string += "*";  
  }  
  string += "\n";  
}  
console.log(string);
```

#### 4. Print the Triangle (Pyramid) pattern?

```
  *  
  
 * *  
  
* * *  
  
* * * *
```

```
let n=6;  
let string=" ";  
for(let i=1;i<=n;i++)  
{  
  for(let j=1;j<=n-i;j++)  
  {  
    string += " ";  
  }  
}
```

```

    }
    for(let k=1;k<i;k++)
    {
        string += "*";
        string += " ";
    }
    string += "\n";
}
console.log(string);

```

### 5) Print the diamond?

A) let n = 5;

let string = "";

```

for (let i = 0; i < n; i++) {
    for (let j = 0; j < i; j++) {
        string += " ";
    }
    for (let k = 0; k < 2 * (n-i) - 1; k++) {
        string += "*";
    }
    string += "\n";
}
console.log(string);

```

### 7) Fibonacci Series?

A) <html>

<head>

<title> Fibonacci Series in JavaScript </title>

</head>

<body>

<script>

var n1 = 0, n2 = 1, next\_num, i;

var num = parseInt (prompt (" Enter the limit for Fibonacci Series "));

document.write( "Fibonacci Series: ");

```
for ( i = 1; i <= num; i++)  
{ document.write (" <br> " + n1);  
  next_num = n1 + n2;  
  n1 = n2;  
  n2 = next_num;  
}  
  
</script>  
  
</body>
```

## **8) why the do while is important?**

### **A) Introduction to the JavaScript do-while statement**

The do-while loop statement creates a loop that executes a block of code until a test condition evaluates to false . Unlike the while loop, the do-while loop always executes the body at least once before it evaluates the expression.