

```

5 )    let rows =10
        let space = Math.floor(rows/2)
        let str=""
        let temp=1

        for(let i =1;i<=rows+1;i++)
        {
            str=""

            if(i<=space){
                for(let j=0;j<=space-i;j++)
                {
                    str = str+' '
                }

                for(let k =1;k<=temp;k++)
            {

                str = str + "*"

            }

            console.log(str)
            temp = temp+2
        }
        else if(i==space+1){
            str=""
            for(let p =1;p<=temp;p++){
                str = str+"*"
            }
            console.log(str)
        }
        else{
            str=""
            temp=temp-2
            for(let m =1;m<=i-space;m++)
            {
                str = str+' '
            }

            for(let n=temp;n>=1;n--)
            {
                str = str + "*"
            }

            console.log(str)

        }

    }

```

```

6)    let rows = 9
        let half = Math.floor(rows/2 )
        let str=""
        let temp = rows
        for(let i=1;i<=rows;i++)
        {
            str = ""
            if(i<=half)
            {
                for(let j =1;j<=i;j++)
            {
                str = str + " "
            }

```

```

for(let k =1;k<=temp;k++)
{
  str = str + "*"

}
console.log(str)
temp = temp-2
}
else{
str = ""
for(let m =1;m<=half;m++)
{
  str = str + " "
}

for(let n =1;n<=temp;n++)
{
  str = str + "*"
}
console.log(str)
temp = temp+2
half--
}
}

```

1)    let rows = 5  
 let columns = rows+1  
 let str=""  
 for (let i =1;i<=rows;i++)  
 {  
   str = " "  
   if(i==1 || i==rows)  
   {  
     for(let j=1;j<=rows+1;j++)  
     {  
       str = str + "\*"
 }  
     console.log(str)
 }  
 }  
 else  
 {  
   for(let k=1;k<=rows+1;k++)  
   {  
     if(k==1 || k==rows+1)  
     {  
       str = str + "\*"
 }  
     else  
     {  
       str = str + " "
 }  
   }  
 }  
 }

```

console.log(str)
}

}

```

```

2) let rows =6
let str=""
for(let i=1;i<=rows;i++)
{
    str = " "
    if(i==1 || i==2 || i==rows)
    {
        for(let j=1;j<=i;j++)
        {
            str = str + '*'
        }
        console.log(str)
    }

    else
    {
        str = " "
        for(let k=1;k<=i;k++)
        {
            if(k==1 || k==i)
            {
                str = str+"*"
            }
            else
            {
                str = str+" "
            }
        }
        console.log(str)
    }
}

```

```

3 ) let rows =5
let str = ""
let temp =1
for(let i=1;i<=rows;i++)
{
    str = " "
    for(let j=1;j<=rows-i;j++)
    {
        str = str+ " "
    }
    for(let k=1;k<=temp;k++)
    {
        str = str + "*"
    }
}

```

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    }
    console.log(str)
    temp =temp+2
  }

```

```

4)      let rows = 7
        let str = " "
        let columns = rows+4
        let space = rows-1
        let temp=columns-2
        for(let i=1;i<=rows;i++)
        {
            str=" "
            if(i==1)
            {
                for(let m=1;m<=columns;m++)
                {
                    str=str+"*"
                }
                console.log(str)
            }

            else
            {
                str = ""
                for(let j=1;j<=i;j++)
                {
                    str = str + " "
                }
                for(let k=1;k<=temp;k++)
                {

                    if(k==1 || k==temp)
                    {
                        str = str+"*"
                    }
                    else
                    {
                        str = str + " "
                    }
                }
                console.log(str)
                temp = temp-2
            }
        }

```

```
7) let rows = 5
let str = ""
let c = 1
for(let i = 0; i < rows; i++)
{
  str = " "
  for(let space = 1; space <= rows - i; space++)
  {
    str = str + " "
  }
  for(let j = 0; j <= i; j++)
  {
    if(j == 0)
    {
      c = 1
      str = str + c
    }
    else
    {
      c = c * (i - j + 1) / j
      str = str + " " + c
    }
  }

  console.log(str)
}
```