

1. Write a program for palindromic primes
i/p : enter a number : 150
o/p : palindrome primes are : 2 3 5 7 11 101 131

```
code:-
num = +prompt("enter a number : ")
pal = ""
for(i=2;i<num;i++)
{
    b=0
    for(j=2;j<i;j++)
    {
        if(i%j == 0)
        {
            b++
            break;
        }
    }
    if(b==0)
    {
        pals= String(i).split("").reverse().join("")
        if(i == pals)
        {
            pal = pal +i+ " "
        }
    }
}
console.log("palindrome primes are : "+pal)
```


2. Finding the minimum and maximum numbers and identifying which is found first and second

i/p: enter a number : 123456789
o/p: min is found first and max is found second

```
code:
n=prompt("enter a number : ")
max=n[0],min = n[0],minidx = 0,maxidx = 0
for(i in n)
{
    if(n[i] < min)
    {
        min = n[i]
        minidx = i
    }
    if(n[i]>max)
    {
        max = n[i]
        maxidx = i
    }
}

maxmin = (minidx<maxidx)?"min is found first and max is found second":"max is found first and min is found second";
console.log(maxmin)
```


3.write a program for Calculating the difference between the sum of even and odd positions

i/p: enter a number to find sum of odd and even position diff : 123

o/p :the sum of even and odd position is : -2

code:-

```
num = prompt("enter a number: ")
oddsum = 0, evensum = 0
for(i=0; i<num.length; i++)
{
    if(i%2 == 0)
    {
        oddsum = oddsum + Number(num[i]);
    }
    else
    {
        evensum = evensum + Number(num[i])
    }
}
```

```
console.log("the sum of even ,odd position is : " +(evensum - oddsum))
```


4.Writing a program for prime numbers in increasing order

i/p: enter a number : 150

o/p : primes in increasing order : 13 17 19 23 29 37 47 59 67 79 89 127
137 139 149

code:-

```
num = +prompt("enter a number : ")
res = ""
x=""
for(i=2; i<num; i++)
{
    d=0
    for(j=2; j<i; j++)
    {
        if(i%j == 0)
        {
            d++
            break;
        }
    }
    if(d==0)
    {
        x=String(i)
        h = 0
        if(x.length>=2)
        {
            for(k=0; k<x.length-1; k++)
            {
                if(x[k+1]>x[k])
                {
                    h++
                }
            }
        }
    }
}
```

```
        }

        if(x.length-1 ==h )
        {
            res += x + " ";
        }
    }
}

console.log("primes in increasing order : "+res)
-----
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```