```
n = +prompt("enter a number : ")
res = ""
for(i=2;i<n;i++)
{
    c=0
    for(j=2;j<i;j++)
    {
        if(i%j == 0)
        {
            c++
            break;
        }
    }
    if(c==0)
    {
          rev= String(i).split("").reverse().join("")
          if(i == rev)
          {
              res = res +i+ " "
          }
        }
    }
console.log("palindrome primes are : "+res)


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

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


a = prompt("enter a number to find sum of odd and even position diff : ")
oddsum = 0,evensum = 0
for(i=0;i<a.length;i++)
{
    if(i%2 == 0)
    {
        oddsum = oddsum + Number(a[i]);
    }
```

```
    else
    {
        evensum = evensum + Number(a[i])
    }
}

console.log("the sum od even and odd position is : " +(evensum - oddsum))

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

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

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



o/p;


node /tmp/eKVLl6wAbC.js
enter a number : 150
palindrome primes are : 2 3 5 7 11 101 131
```

enter a number : 123456789
min is found first and max is found second
enter a number to find sum of odd and even position diff : 123
the sum od even and odd position is : -2
enter a number : 150
primes in increasing order : 13 17 19 23 29 37 47 59 67 79 89 127 137 139 149

today problem solving task:

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

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

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

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

Topic: Problem-Solving Class

Detailed discussion on:
- Writing a program for palindromic primes
- Finding the minimum and maximum numbers and identifying which is found first and second
- Calculating the difference between the sum of even and odd positions
- Writing a program for prime numbers in increasing order