

1) Program to print 1 to num, num to 1, -1 to -num, -num to -1 by using while loop

```
const prompt=require('prompt-sync')();
```

```
let num1=prompt("Enter a number");
```

```
i=1;
```

```
while(i<=num1)
```

```
{
```

```
    console.log(i);
```

```
    i++;
```

```
}
```

```
console.log("*****")
```

```
j=num1;
```

```
while(j>=1)
```

```
{
```

```
    console.log(j);
```

```
    j--;
```

```
}
```

```
console.log("*****")
```

```
k=-1;
```

```
while(k>=-num1)
```

```
{
```

```
    console.log(k);
```

```
    k--;
```

```
}
```

```
console.log("*****")
```

```
x=-num1;
```

```
while(x<=-1)
```

```
{
```

```
    console.log(x);
```

```
    x++;
```

```
}
```

```
PS C:\Users\USER\Desktop\10k coders\Problem solving\April30> node while.js
Enter a number3
1
2
3
*****
3
2
1
*****
-1
-2
-3
*****
-3
-2
-1
PS C:\Users\USER\Desktop\10k coders\Problem solving\April30> |
```

2) Write a program to find the largest prime in the given number

```
const prompt=require('prompt-sync')();
```

```
let large=prompt("enter a number: ");
```

```
largest=1;
```

```
for(number of large){
```

```
    checkPrime=true;
```

```
    if(number>1){
```

```

        for(i=2;i<number;i++){
            if(number%i==0){
                checkPrime=false;
                break;
            }
        }
        if(checkPrime){
            if(number>largest){
                largest=number;
            }
        }
    }
}

console.log(largest);

```

```

PS C:\Users\USER\Desktop\10k coders\Problem solving\April30> node largestprime.js
enter a number: 46537
7
PS C:\Users\USER\Desktop\10k coders\Problem solving\April30> 

```

3) Write a program to print the sum of largest and smallest prime digits in the given number

```

const prompt = require("prompt-sync")();

let number = prompt("enter a number: ");

largest = 1;

min = 10;

max = 1;

for (num of number) {

```

```

        count = true;
    if (num > 1)
    {
        if(num==2)
        {
            min=2;
        }
        for (i = 2; i < num; i++) {
            if (num % i == 0) {
                count = false;
                break;
            }
        }
        if (count) {
            if (num > max) {
                max = num;
            } if (num < min) {
                min = num;
            }
        }
    }
}

console.log(Number(max)+Number( min));

```

```

PS C:\Users\USER\Desktop\10k coders\Problem solving\April30> 5497351
5497351
PS C:\Users\USER\Desktop\10k coders\Problem solving\April30> node lspri
enter a number: 5497351
10
PS C:\Users\USER\Desktop\10k coders\Problem solving\April30> █

```

4) Write a program to print the largest non prime digit in the given number

```
const prompt=require('prompt-sync')();
```

```
let np=prompt('enter a number: ');
```

```
large=0;
```

```
for(n of np){
```

```
    if(n>1){
```

```
        for(i=2;i<n;i++){
```

```
            if(n%i==0){
```

```
                if(n>large){
```

```
                    large=n;
```

```
                }
```

```
            }
```

```
        }
```

```
    }
```

```
}
```

```
console.log(large);
```

```
PS C:\Users\USER\Desktop\10k coders\Problem solving\April30> node nonprime.js
enter a number: 463482
8
PS C:\Users\USER\Desktop\10k coders\Problem solving\April30> 
```