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

```javascript
let prompt=require(`prompt-sync`)();
let a=+prompt("Enter the number:");
i=1;
while(!(i==a+1)){
    console.log(i);
    i++;
}
```

PROBLEMS   OUTPUT   DEBUG CONSOLE   TERMINAL   PORTS

```
PS C:\Users\lenovo\Desktop\JavaScript> node problem6.js
Enter the number:10
1
2
3
4
5
6
7
8
9
10
PS C:\Users\lenovo\Desktop\JavaScript>
```

```javascript
21    let prompt=require(`prompt-sync`)();
22    let num=+prompt("Enter the number:");
23    i=10;
24    while(i!=0){
25        console.log(i);
26        i--;
27    }
28
```

PROBLEMS   OUTPUT   DEBUG CONSOLE   TERMINAL   P(

```
Enter the number:10
10
9
8
7
6
5
4
3
2
1
PS C:\Users\lenovo\Desktop\JavaScript>
```

```javascript
let prompt=require(`prompt-sync`)();
let a=prompt("Enter the number:");
i=-1;
while(i>=a){
    console.log(i);
    i--;
}
```

```
Enter the number:-10
-1
-2
-3
-4
-5
-6
-7
-8
-9
-10
PS C:\Users\lenovo\Desktop\JavaScript> 
```

```
44    let prompt=require(`prompt-sync`)();
45    let a=prompt("Enter the number:");
46    i=-10;
47    while(i<=a){
48        console.log(i);
49        i++;
50    }
51
52
53
```

PROBLEMS   OUTPUT   DEBUG CONSOLE   TERMINAL   PORTS

```
PS C:\Users\lenovo\Desktop\JavaScript> node problem6.js
Enter the number:-1
-10
-9
-8
-7
-6
-5
-4
-3
-2
-1
PS C:\Users\lenovo\Desktop\JavaScript> 
```

2) Write a program to find the largest prime in the given number
input: 46537

```javascript
let prompt=require(`prompt-sync`)();
let num=prompt("Enter the number:");
var maxnum=1;

for(n of num){
    c=0;
    for(i=2;i<n;i++){
        if(n%i == 0){
            c++;
            break;
        }
    }
    if(c == 0){
        if(n>maxnum){
            maxnum=n;
        }
    }
}
console.log(maxnum);
```

PROBLEMS   OUTPUT   DEBUG CONSOLE   TERMINAL   PORTS

PS C:\Users\lenovo\Desktop\JavaScript> node problem7.js
Enter the number:46537
7
PS C:\Users\lenovo\Desktop\JavaScript>

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

```javascript
 7    max=1;
 8    min=11;
 9    for(n of num){
10        if(n>1){
11        prime=true;
12        for(i=2;i<n;i++){
13            if(n%i==0){
14                prime=false;
15                break;
16            }
17        }
18        if(prime){
19            if(n>max){
20                max=n;
21            }
22            else if(n<min){
23                min=n;
24            }
25
26        }
27    }
28    }
29    res=Number(max)+Number(min);
30    console.log(res)
```

PROBLEMS   OUTPUT   DEBUG CONSOLE   TERMINAL   PORT

Enter the number:5497351
10
PS C:\Users\lenovo\Desktop\JavaScript>

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

```javascript
let prompt=require(`prompt-sync`)();
let num=prompt("Enter the number:");
largest=1;
for(n of num){
    count=0;
    for(i=2;i<n;i++){
        if(n%i==0){
            count    any
            if(n>largest){
                largest=n;
            }

        }

    }

}
console.log(largest);
```

```
Enter the number:5497351
PS C:\Users\lenovo\Desktop\JavaScript> node problem9.js
Enter the number:463482
8
PS C:\Users\lenovo\Desktop\JavaScript>
```