

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

```
38  const prompt=require('prompt-sync')()
39  num=prompt("enter a number: ")
40  i=1
41  while(!(num<i))
42  {
43      console.log(i)
44      i++
45  }
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

enter a number: 10

1  
2  
3  
4  
5  
6  
7  
8  
9  
10

```
38  const prompt=require('prompt-sync')()
39  num=prompt("enter a number: ")
40  i=1
41  ✓ while(num+1>i)
42  {
43      console.log(num)
44      num--
45  }
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

enter a number: 10

10  
9  
8  
7  
6  
5  
4  
3  
2  
1

```
38  const prompt=require('prompt-sync')()
39  num=+prompt("enter a number: ")
40  i=-1
41  while(i!=num-1)
42  {
43      console.log(i)
44      i--
45  }
46
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

enter a number: -10

-1  
-2  
-3  
-4  
-5  
-6  
-7  
-8  
-9  
-10

```
38  const prompt=require('prompt-sync')()
39  num=+prompt("enter a number: ")
40  i=-1
41  while(num-1!=i)
42  {
43      console.log(num)
44      num++
45  }
46
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

● enter a number: -10

-10  
-9  
-8  
-7  
-6  
-5  
-4  
-3  
-2  
-1

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

input: 46537

output: 7

```
2  const prompt = require("prompt-sync")();
3  num = prompt("enter a number: ");
4  c = true;
5  max = 0;
6
7  for (n of num) {
8    if (n > 1) {
9      c = true;
10     for (i = 2; i < n; i++) {
11       if (n % i == 0) {
12         c = false;
13         break;
14       }
15     }
16     if (c) {
17       if (n > max) {
18         max = n;
19       }
20     }
21   }
22 }
23 console.log(max);
24
25 // i--1
```

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```
PS C:\Users\katta\OneDrive\Desktop\Amruth\js> node psday2.js
enter a number: 46537
7
```

3) Write a program to print the sum of largest and smallest prime digits in the given number  
input: 5497351  
output: 10

```
2  const prompt = require("prompt-sync")();
3  num = prompt("enter a number: ");
4  c = true;
5  max = 0;
6  min = 10;
7
8  for (n of num) {
9      if (n > 1) {
10         c = true;
11         for (i = 2; i < n; i++) {
12             if (n % i == 0) {
13                 c = false;
14                 break;
15             }
16         }
17         if (c) {
18             if (n > max) {
19                 max = n;
20             }
21             if (n < min) {
22                 min = n;
23             }
24         }
25     }
26 }
27 console.log("largest prime number : ",max)
28 console.log("smallest prime number : ",min)
29 console.log(`sum of largest and smallest prime numbers is ${Number(max)+Number(min)}`)
30
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

```
PS C:\Users\katta\OneDrive\Desktop\Amruth\js> node psday2.js
enter a number: 5497351
largest prime number : 7
```

4) Write a program to print the largest non prime digit in the given number  
input: 463482  
output: 8

```
38  const prompt = require("prompt-sync")();
39  num = prompt("enter a number: ");
40  max = 0;
41
42  for (n of num) {
43      if (n > 1) {
44
45          for (i = 2; i < n; i++) {
46              if (n % i == 0) {
47                  if (n > max)
48                  {
49                      max = n
50                  }
51              }
52          }
53      }
54  }
55  console.log(max)
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

```
PS C:\Users\katta\OneDrive\Desktop\Amruth\js> node psday2.js
enter a number: 463482
8
```

