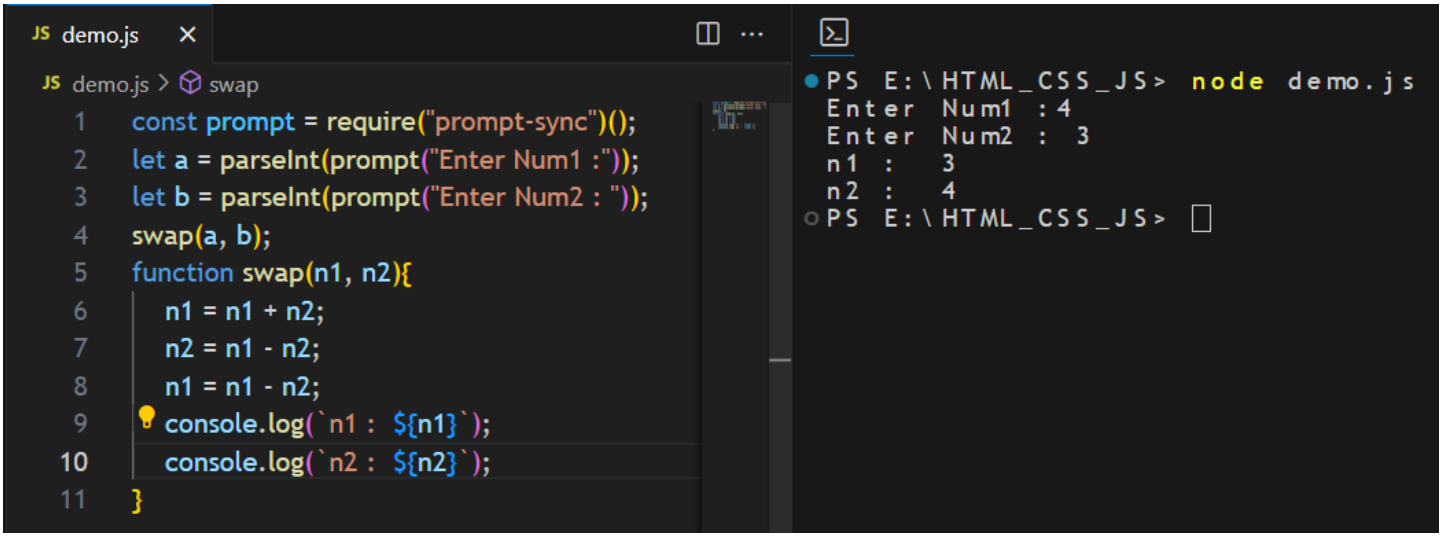
S-Problem01:

Write a program to Swap two Variables a and b (Swapping basically means interchanging)

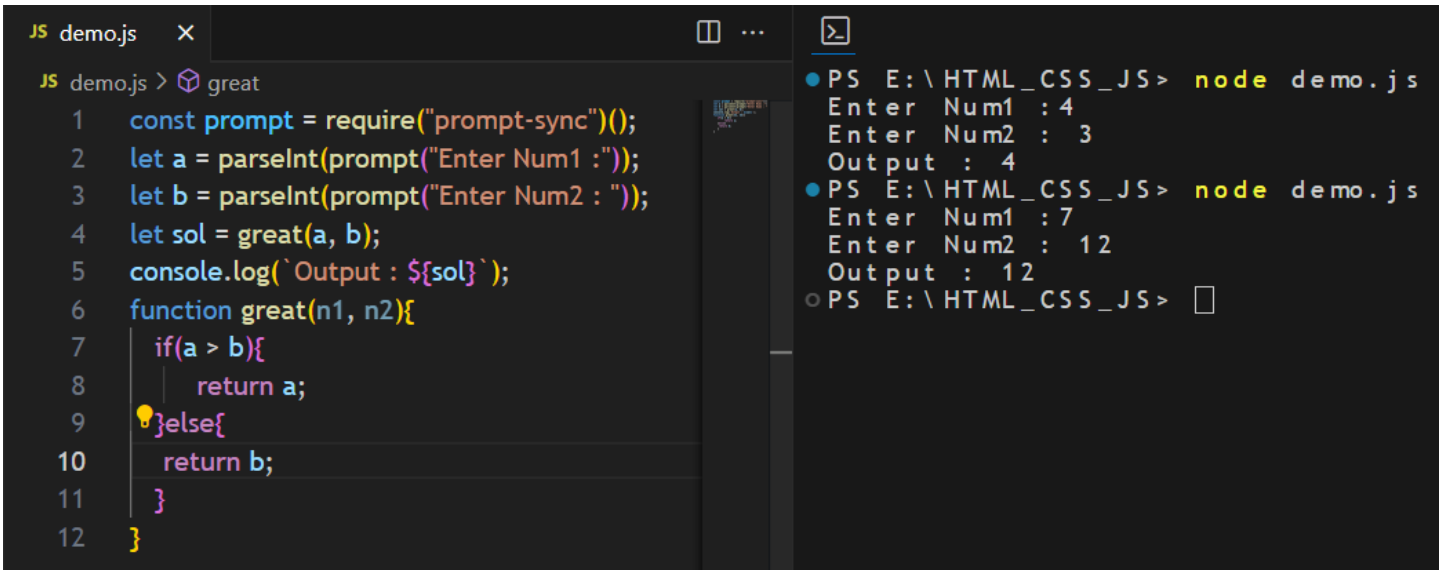
Input a=3 , b=4 Output a=4, b=3



S-Problem02:

Write a program to print the largest number of the two numbers given.

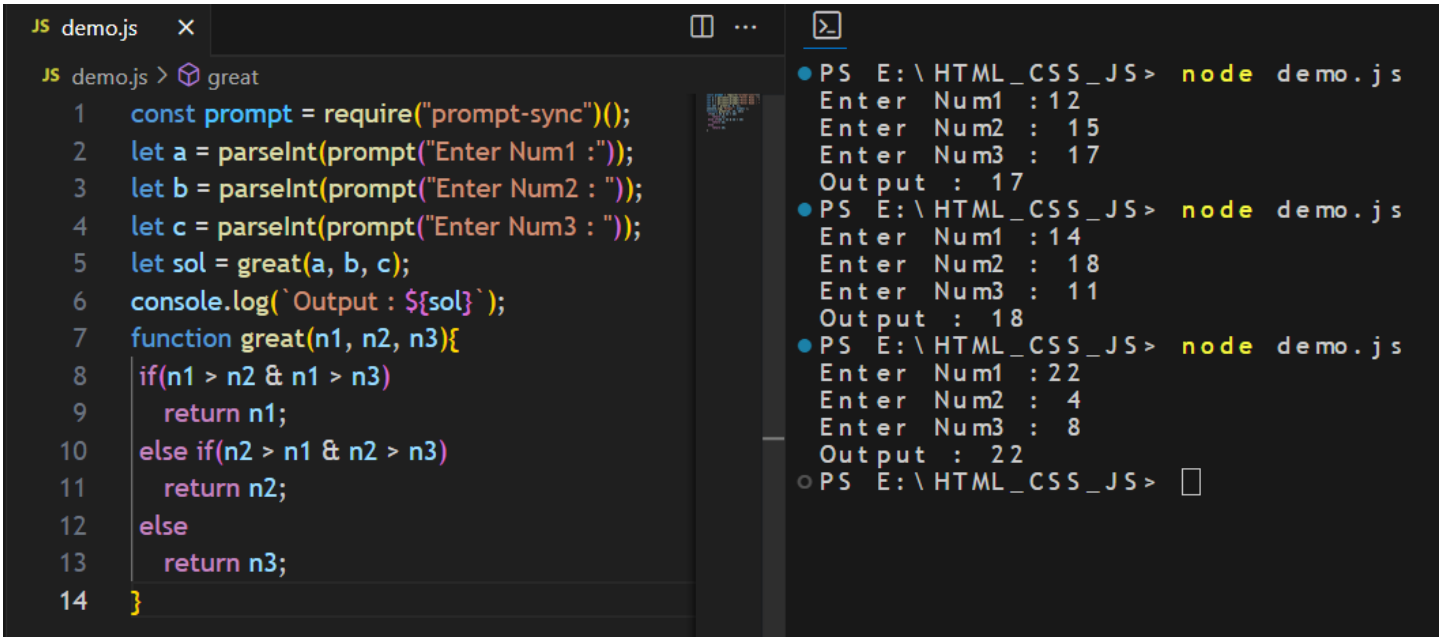
Input:- a=3, b=4 Output: 4



S-Problem03:

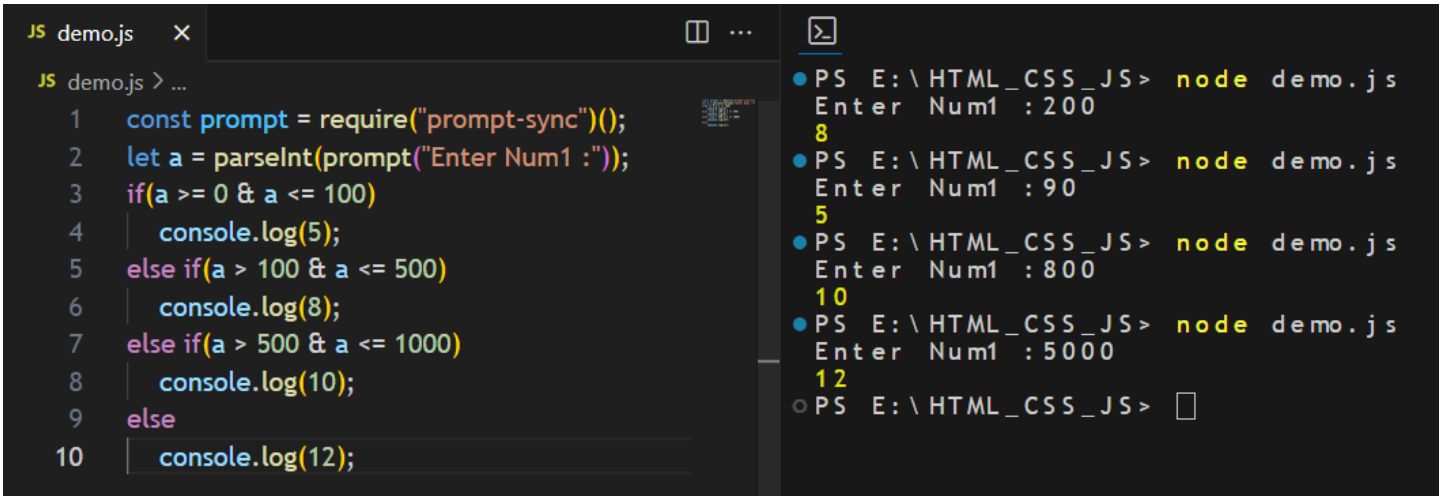
Write a program to print the largest of the three numbers.

Input:- a=3, b=5, c=1 Output:- 5



S-Problem04:

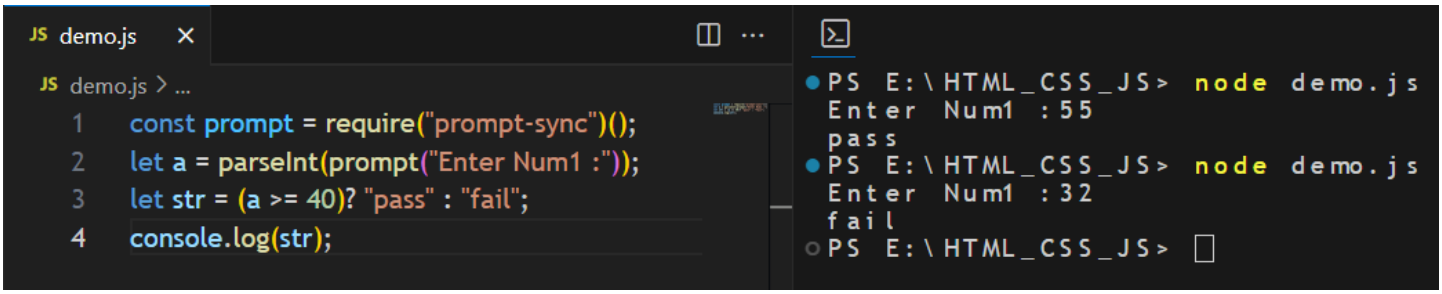
Given a variable D (distance) write a program to print the cost associated with it as shown in the image:- Input:- D = 700 Output:- 10



S-Problem05:

Write a program to assume a value of marks and print whether a person has failed or passed using ternary Operator. If Marks> =40 --> pass ELSE ---> fail

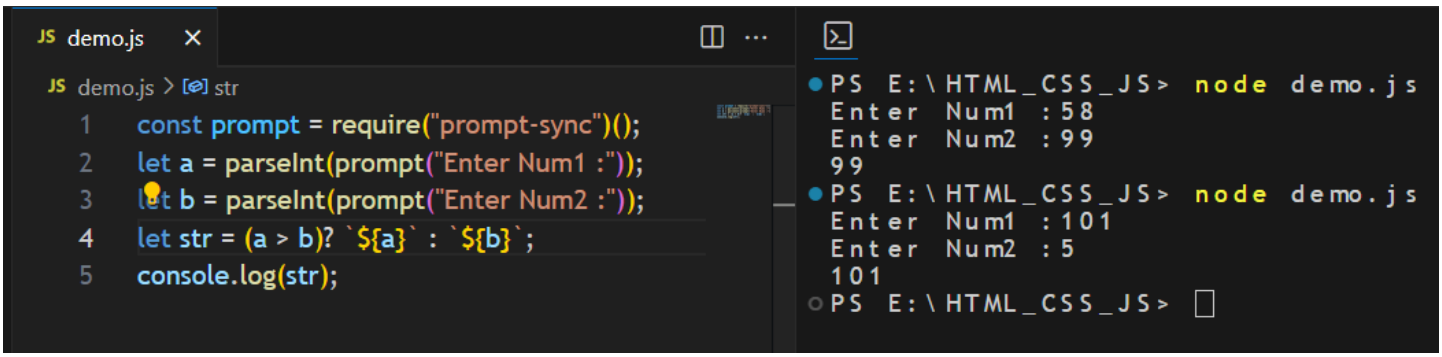
Input:- Marks =52 Output:- pass



S-Problem06:

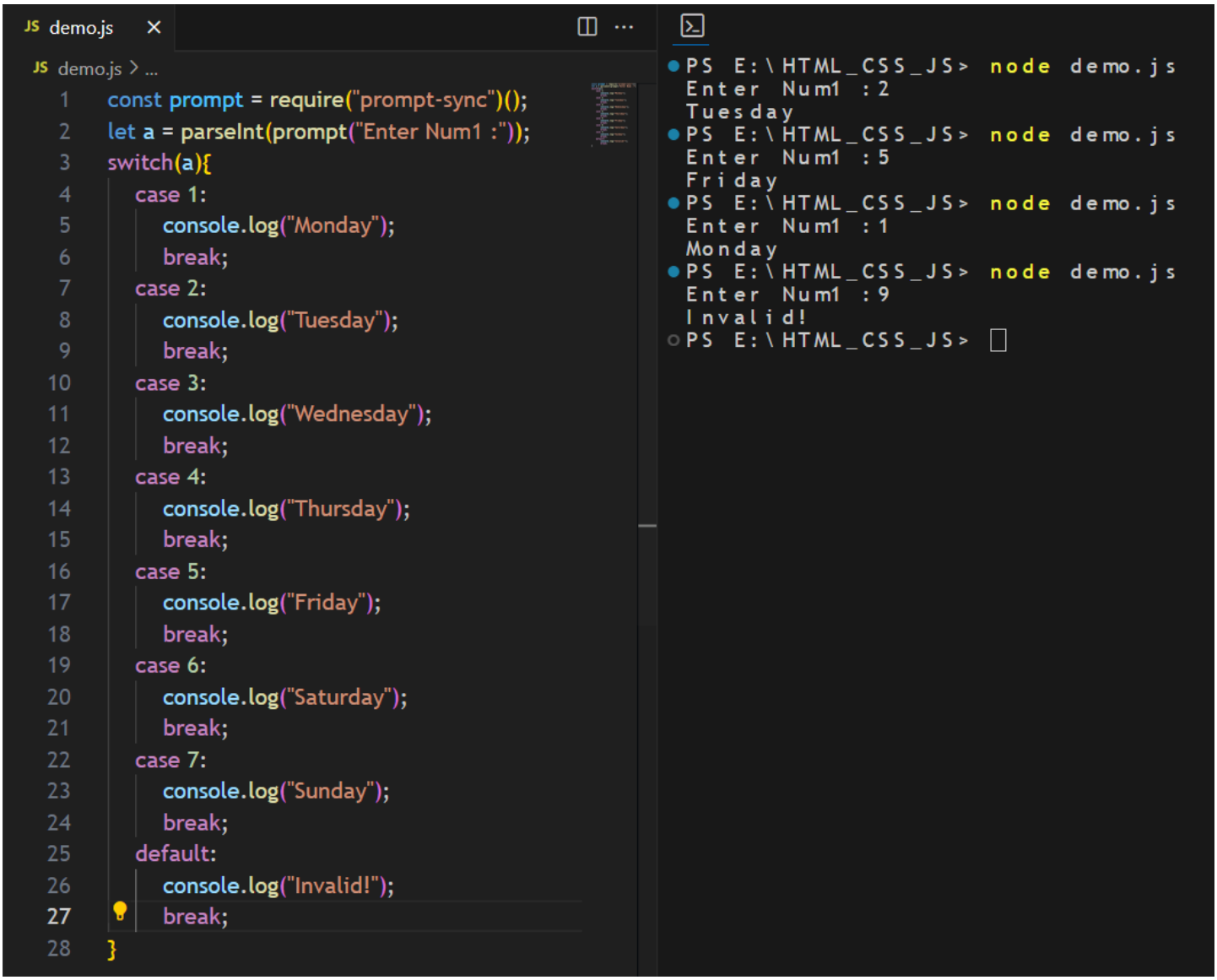
Write a program to print the maximum of two numbers using Ternary operator.

Example:- Input:- a=3, b=5 Output:- 5



S-Problem07:

Given the Day number, print the Day name in lower case corresponding to it by using the help of switch statement. Note: Day 1 - is Monday. If the day is not valid example 1> day >7 then print invalid Input :- Day – 3 Output :- Wednesday



Q. What will be the output of the following algorithm.

switch (x) {

case 1: print("Choice is 1"); break;

case 2: print("Choice is 2");

case 3: print("Choice is 3");

case 4: print("Choice is 4"); break;

default: print("Choice other than 1, 2, 3 and 4") break; }

Which of the following Option is correct if (x=2) :-

A) Choice is 1

B) Choice is 1 Choice is 2

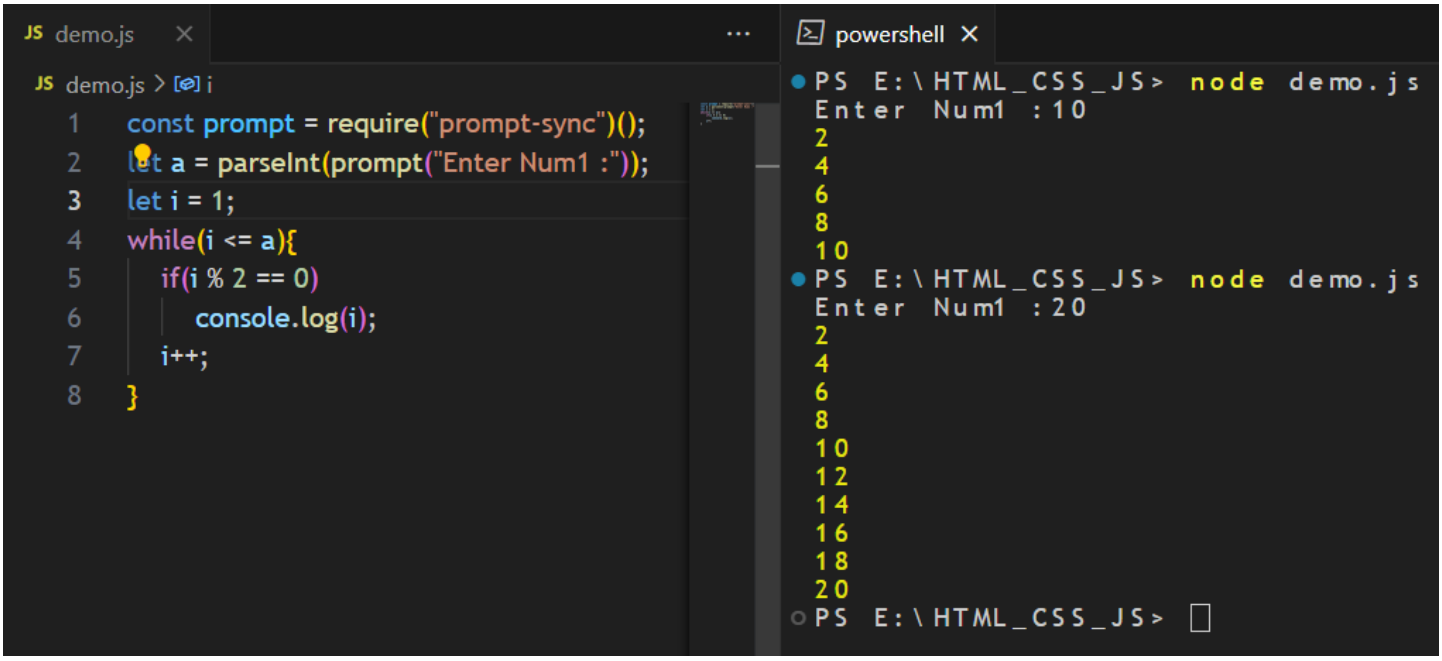
C) Choice is 2 Choice is 3 Choice is 4 -> Correct Answer

D) Choice is 2 Choice is 3

S-Problem08:

Write a program using only while loops to print all the even numbers from 1 to n.

Input if n = 10 Output 2 4 6 8 10



S-Problem09:

Print the following series using while loop 1 4 9 16 25 36 …. n

Input :- n = 49 Output :- 1 4 9 16 25 36 49

```
demo.js
1  const prompt = require("prompt-sync")();
2  let a = parseInt(prompt("Enter Num1 :"));
3  let i = 1;
4  while(i <= a){
5      let res = i * i;
6      if(res > a)
7          break;
8      console.log(res);
9      i++;
10 }
```

```
powershell
PS E:\HTML_CSS_JS> node demo.js
Enter Num1 :50
1
4
9
16
25
36
49
PS E:\HTML_CSS_JS> node demo.js
Enter Num1 :100
1
4
9
16
25
36
49
64
81
100
PS E:\HTML_CSS_JS>
```

S-Problem10:

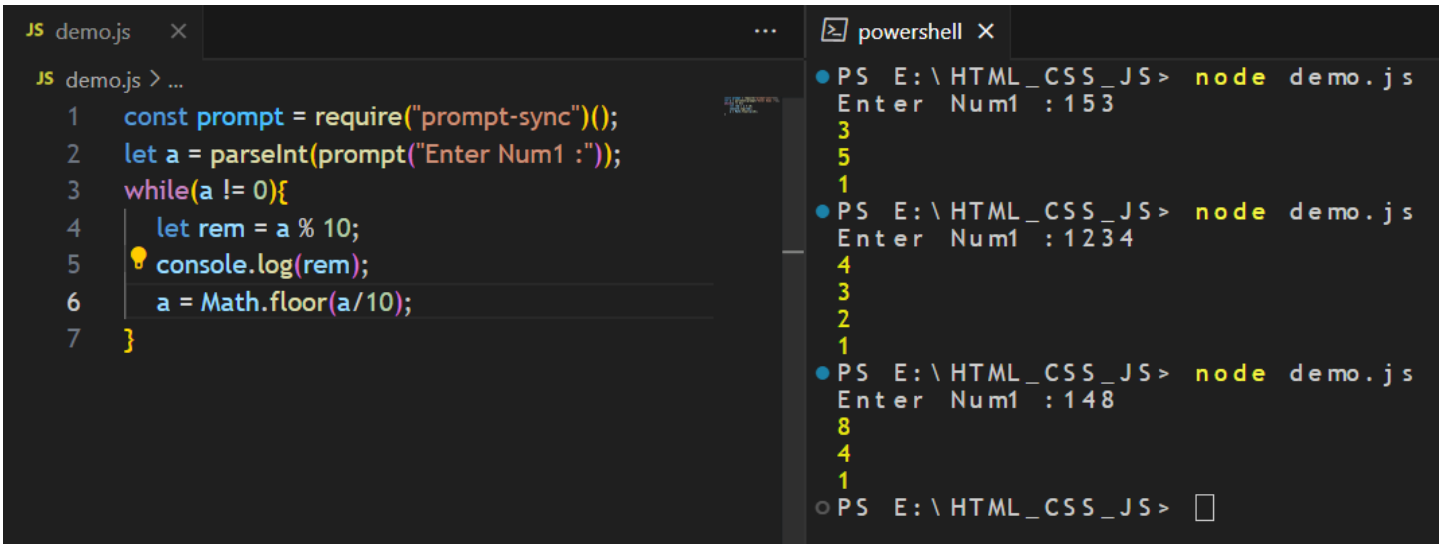
By using while loop and continue statement Print all number from 1 to n but then it should not be divisible by 5 Example:- Input:- n=7 output:- 1 2 3 4 6 7

```
demo.js
1  const prompt = require("prompt-sync")();
2  let a = parseInt(prompt("Enter Num1 :"));
3  let i = 1;
4  while(i <= a){
5      if(i % 5 != 0)
6          console.log(i);
7      i++;
8  }
```

```
powershell
PS E:\HTML_CSS_JS> node demo.js
Enter Num1 :7
1
2
3
4
6
7
PS E:\HTML_CSS_JS> node demo.js
Enter Num1 :12
1
2
3
4
6
7
8
9
11
12
PS E:\HTML_CSS_JS>
```

S-Problem11:

Write a program to print the digits of a number . Input:- N - 153 . output:- 3 5 1

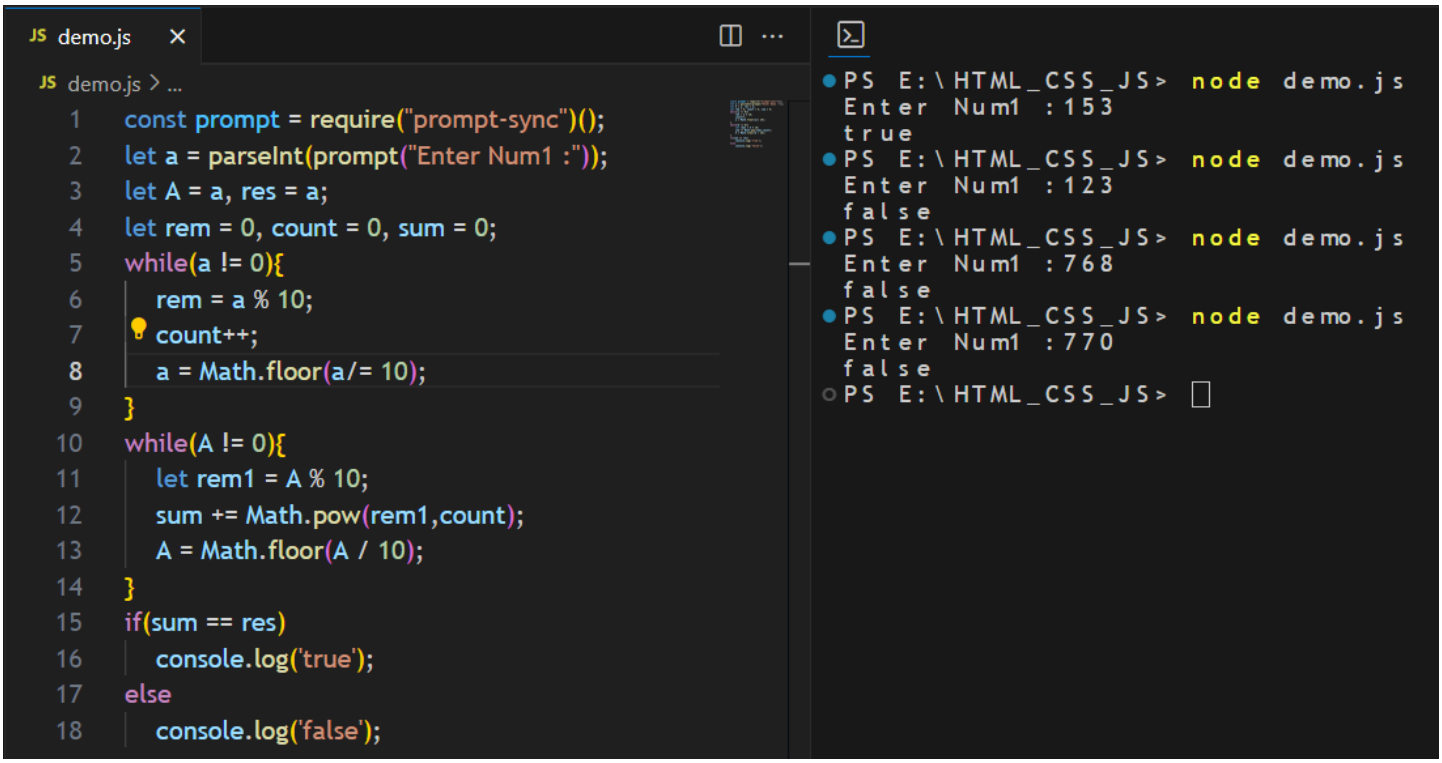


```
demo.js
1  const prompt = require("prompt-sync")();
2  let a = parseInt(prompt("Enter Num1 :"));
3  while(a != 0){
4      let rem = a % 10;
5      console.log(rem);
6      a = Math.floor(a/10);
7  }
```

```
powershell
PS E:\HTML_CSS_JS> node demo.js
Enter Num1 :153
3
5
1
PS E:\HTML_CSS_JS> node demo.js
Enter Num1 :1234
4
3
2
1
PS E:\HTML_CSS_JS> node demo.js
Enter Num1 :148
8
4
1
PS E:\HTML_CSS_JS>
```

S-Problem12:

Armstrong Number Input: 153 Output: True Input: 123 Output = false;

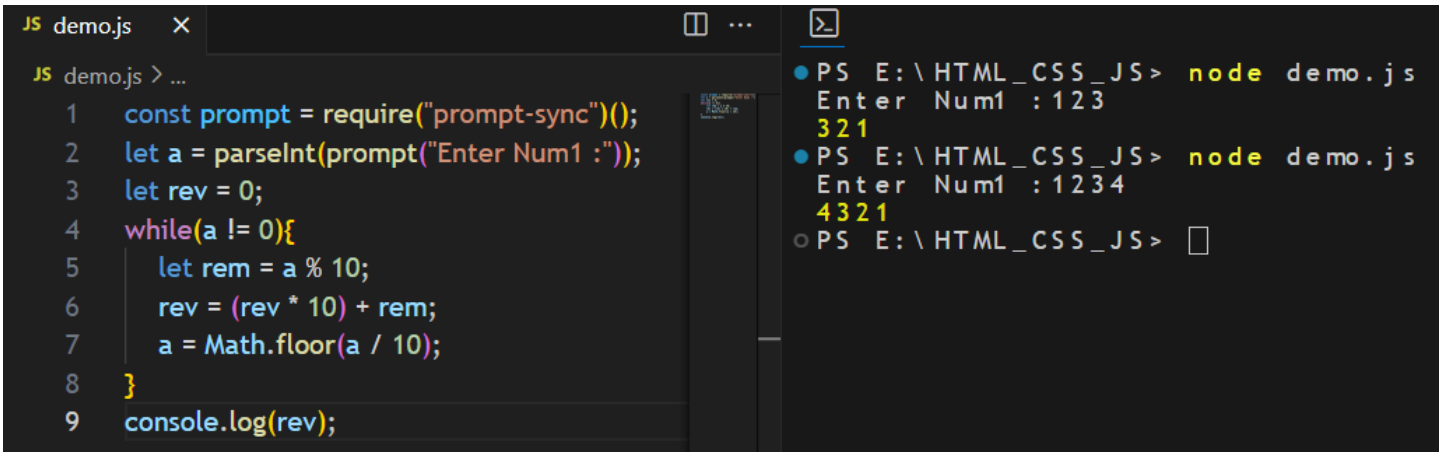


```
demo.js
1  const prompt = require("prompt-sync")();
2  let a = parseInt(prompt("Enter Num1 :"));
3  let A = a, res = a;
4  let rem = 0, count = 0, sum = 0;
5  while(a != 0){
6      rem = a % 10;
7      count++;
8      a = Math.floor(a/= 10);
9  }
10 while(A != 0){
11     let rem1 = A % 10;
12     sum += Math.pow(rem1,count);
13     A = Math.floor(A / 10);
14 }
15 if(sum == res)
16     console.log('true');
17 else
18     console.log('false');
```

```
PS E:\HTML_CSS_JS> node demo.js
Enter Num1 :153
true
PS E:\HTML_CSS_JS> node demo.js
Enter Num1 :123
false
PS E:\HTML_CSS_JS> node demo.js
Enter Num1 :768
false
PS E:\HTML_CSS_JS> node demo.js
Enter Num1 :770
false
PS E:\HTML_CSS_JS>
```

S-Problem13:

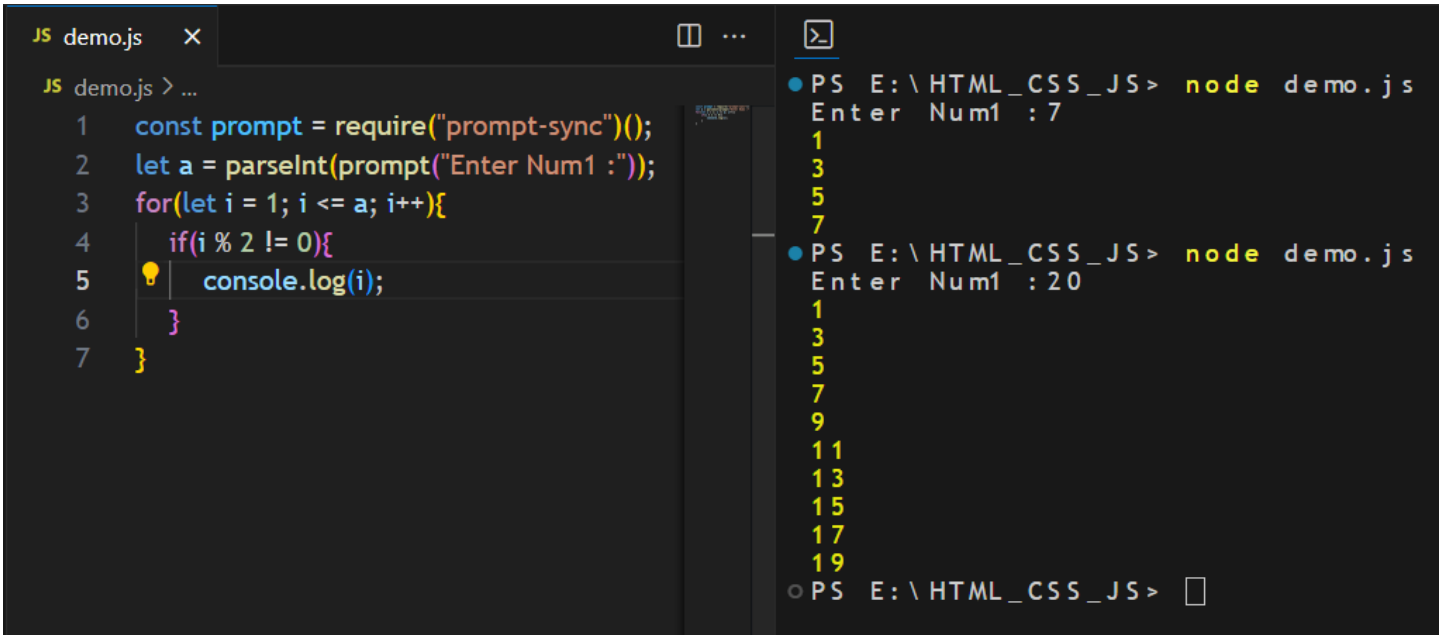
Write a program to return the reverse of a number. Input -> n=123 output : 321



S-Problem14:

Write a program to print all odd numbers from 1 to n using for loops

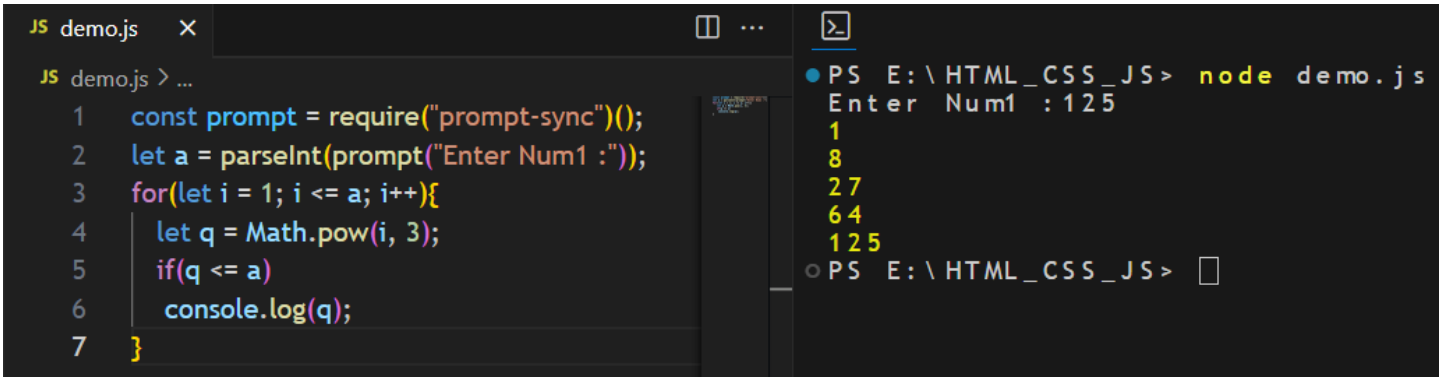
Example:- Input :- n=7 Output :- 1 3 5 7



S-Problem15:

Print the following series using for loop:- 1,8,27,64,125,216,.....n

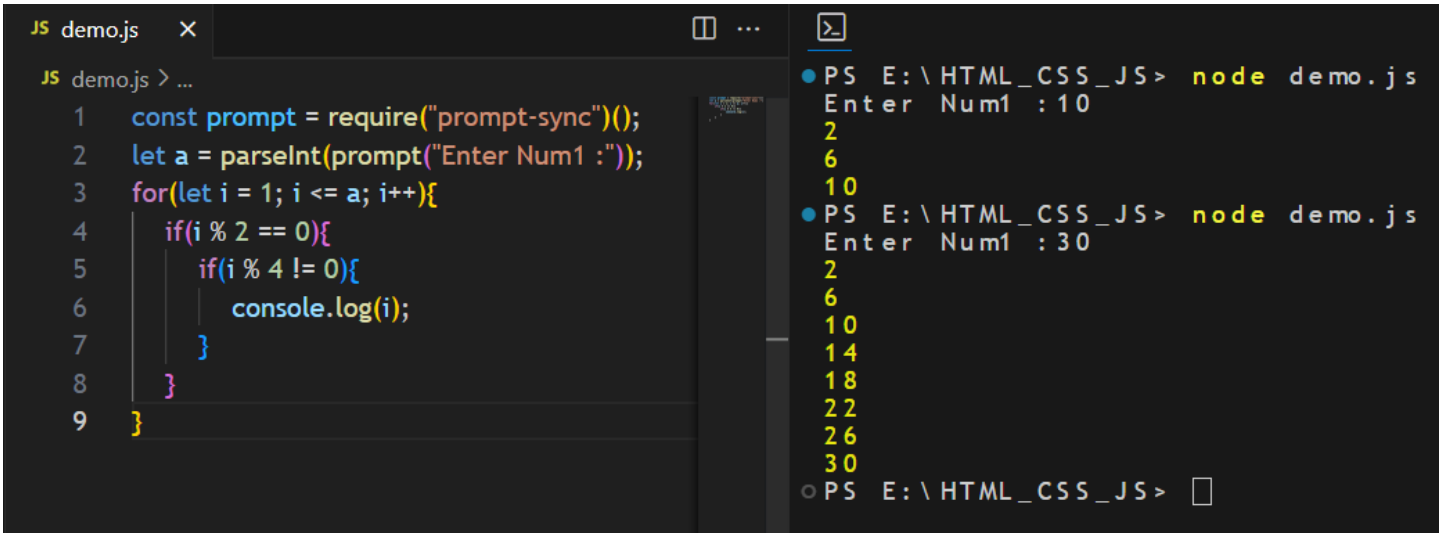
Input: 125 Output :- 1 8 27 64 125



S-Problem16:

Write a program to print even numbers from 1 to n except numbers which are divisible by 4. Use Continue statement to avoid printing.

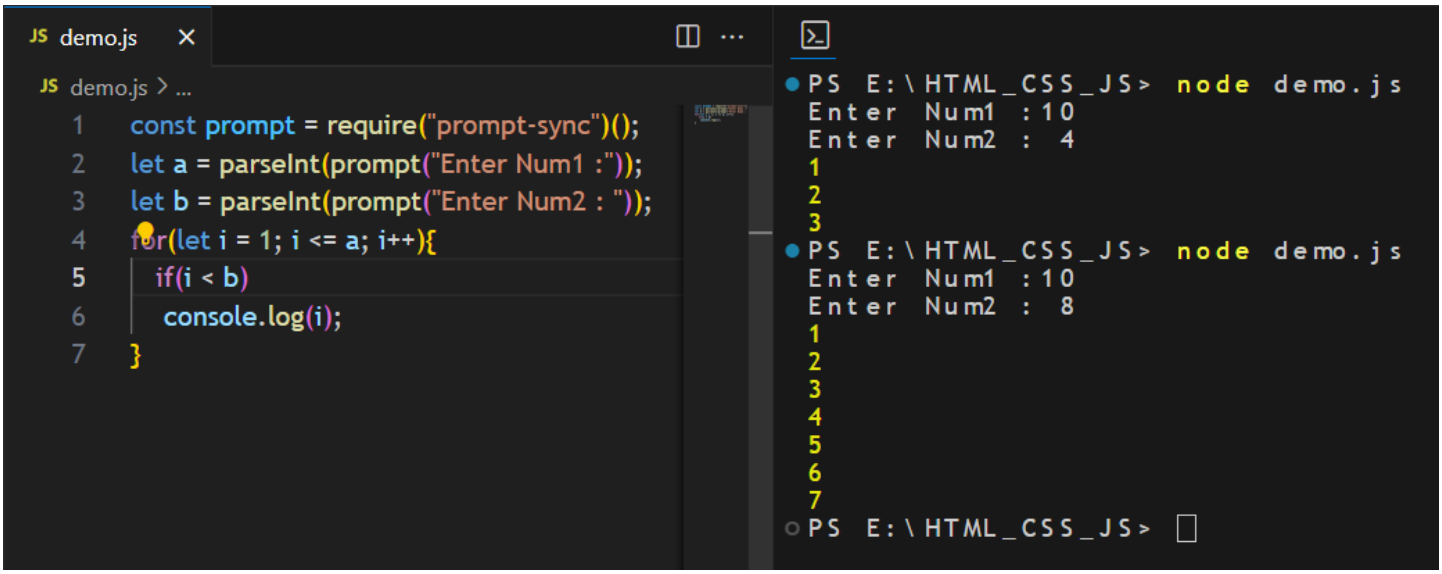
Input 10 Output 2 6 10



S-Problem17:

Write a program to print all the numbers from 1 to n .If m is present in between the sequence then stop printing any other number and break out of the loop.

Input :- n = 10 m = 4 Output :- 1 2 3



S-Problem18:

Assume temperature is in Celsius if conversion unit is Kelvin. Assume temperature is in Kelvin if conversion unit is Celsius. Input: 35, K Output: 308 Input: 308, C Output: 35