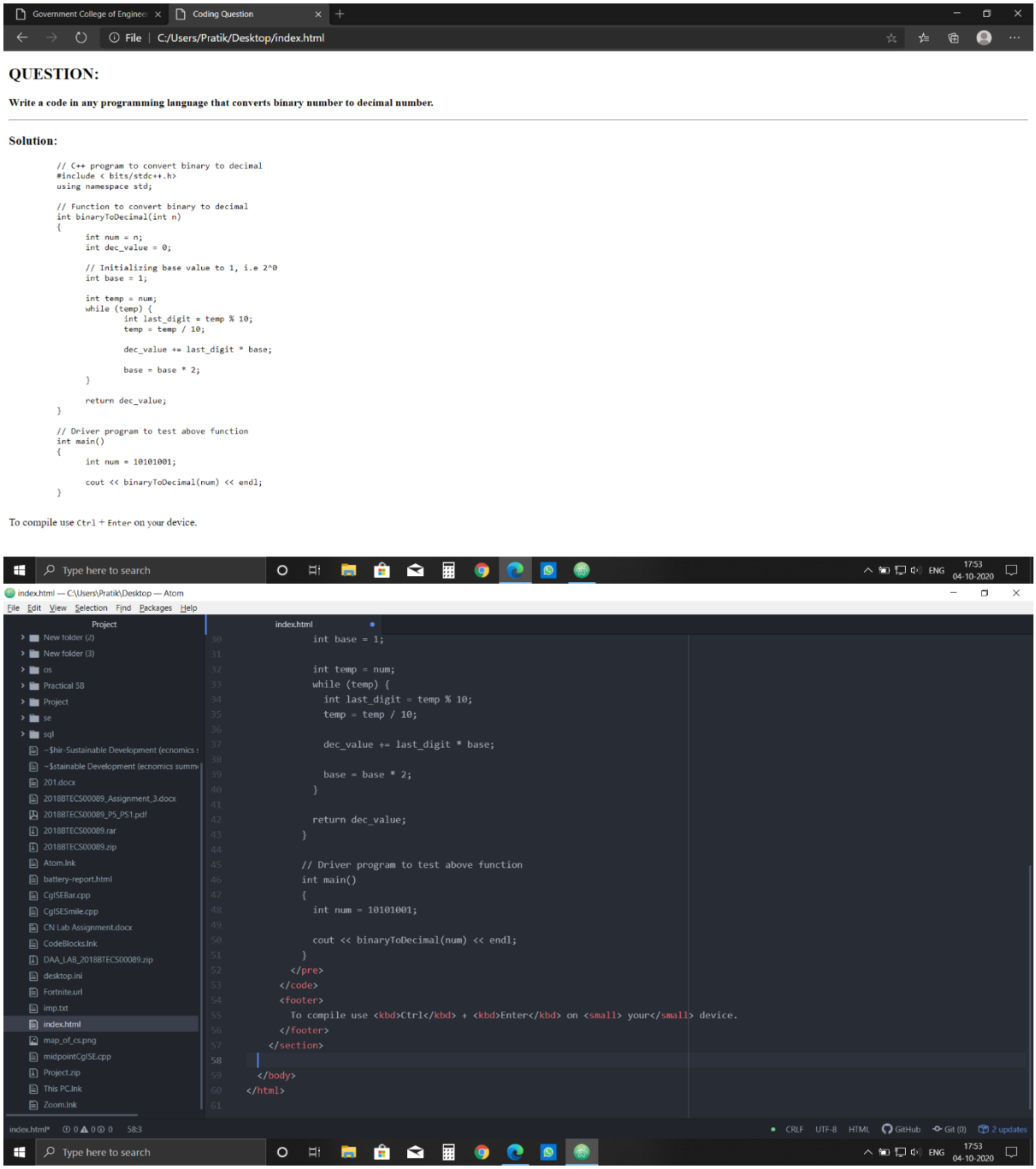
Coding Question:



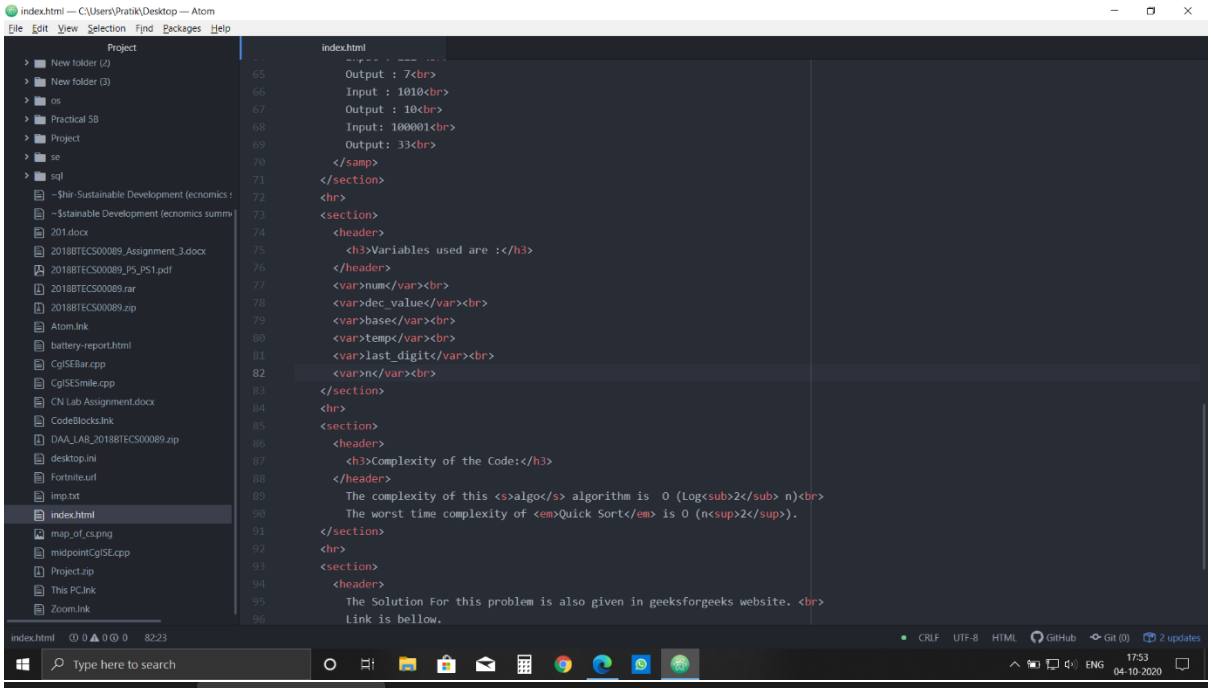
QUESTION:

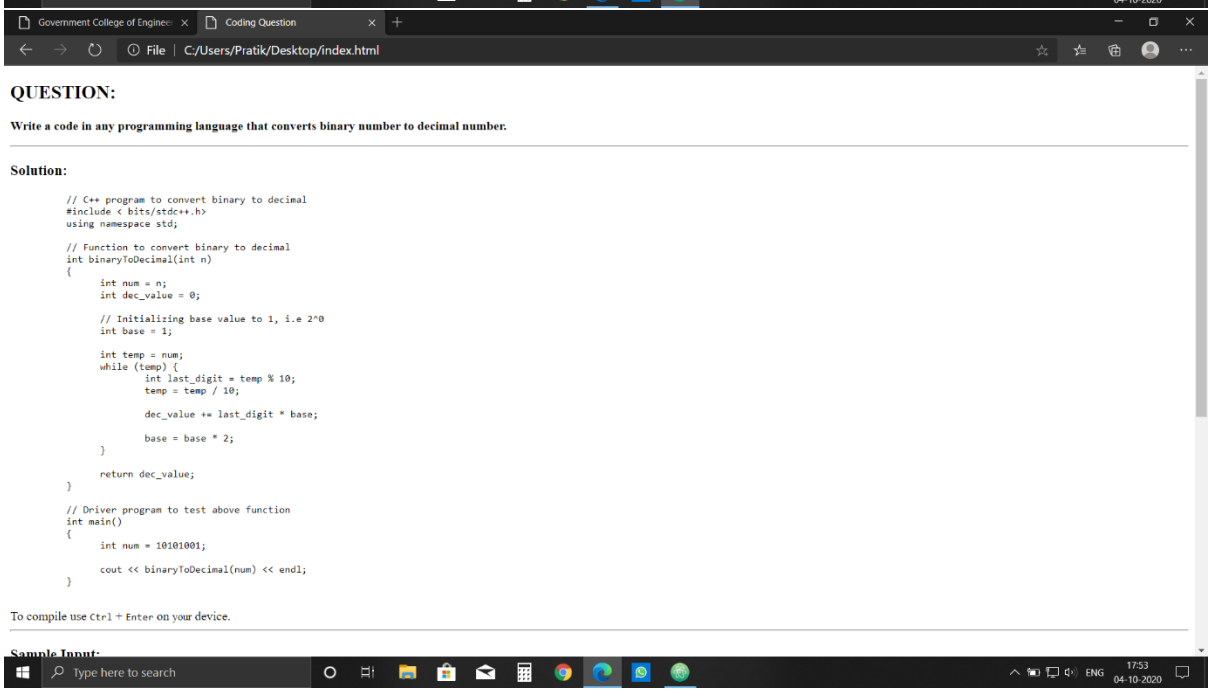
Write a code in any programming language that converts binary number to decimal number.

Solution:

```
// C++ program to convert binary to decimal
#include < bits/stdc++.h>
using namespace std;

// Function to convert binary to decimal
int binaryToDecimal(int n)
{
	int num = n;
	int dec_value = 0;

	// Initializing base value to 1, i.e 2^0
	int base = 1;

	int temp = num;
	while (temp) {
		int last_digit = temp % 10;
		temp = temp / 10;

		dec_value += last_digit * base;

		base = base * 2;
	}

	return dec_value;
}

// Driver program to test above function
int main()
{
	int num = 10101001;

	cout << binaryToDecimal(num) << endl;
}
```

To compile use `Ctrl + Enter` on your device.


index.html — C:\Users\Pratik\Desktop — Atom
File Edit View Selection Find Packages Help
Project
index.html
Output : 7
Input : 1010
Output : 10
Input: 100001
Output: 33
</samp>
</section>
<hr>
<section>
<header>
<h3>Variables used are :</h3>
</header>
<var>num</var>
<var>dec_value</var>
<var>base</var>
<var>temp</var>
<var>last_digit</var>
<var>n</var>
</section>
<hr>
<section>
<header>
<h3>Complexity of the Code:</h3>
</header>
The complexity of this <s>algo</s> algorithm is O (Log₂ n)
The worst time complexity of Quick Sort is O (n²).
</section>
<hr>
<section>
<header>
The Solution For this problem is also given in geeksforgeeks website.
Link is bellow.
Type here to search
ENG
17:53
04-10-2020


Government College of Enginee
Coding Question
File | C:/Users/Pratik/Desktop/index.html
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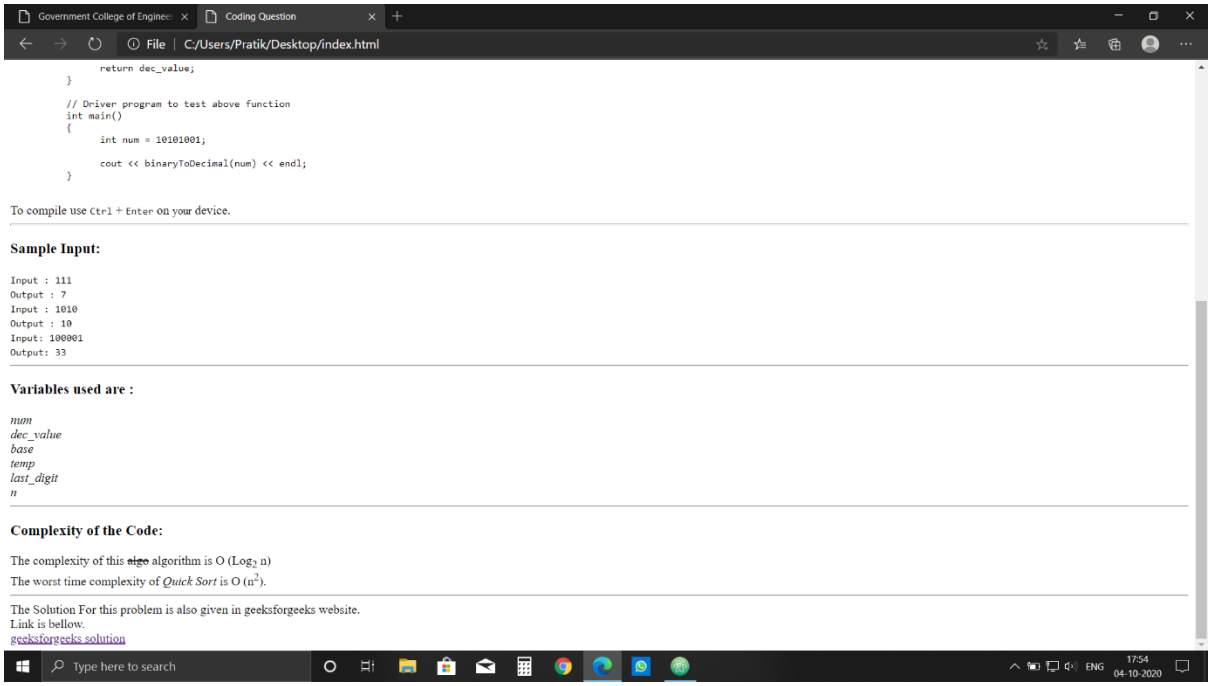
// Initializing base value to 1, i.e 2^0
int base = 1;
int temp = num;
while (temp) {
int last_digit = temp % 10;
temp = temp / 10;
dec_value += last_digit * base;
base = base * 2;
}
return dec_value;
}
// Driver program to test above function
int main()
{
int num = 10101001;
cout << binaryToDecimal(num) << endl;
}
To compile use Ctrl + Enter on your device.
Sample Input:
Type here to search
ENG
17:53
04-10-2020



Github link:

https://github.com/sudhanshu457/2018BTECS00089.git