1.) Convert Hexadecimal to binary 24F

$$(24F)_{16} = (0010\ 0100\ 1111)_2$$

2.) Convert any one Octal to Binary

$$(12)_8 = (001\ 010)_2$$

3.) Create Inputs and outputs Dominos Pizza Store and web site

Input Details:

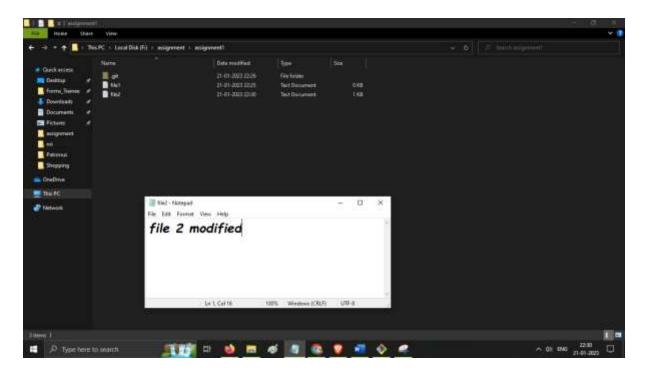
- Customer's name
- Contact number
- Customer's email
- Customer's address
- Customer's order details
- Mode of payment
- Payment credentials
- Customer's feedback

Output details:

- An UI interface for the website
- Personalized recommendations
- Offers
- Order's bill
- An Realtime order delivery tracking feature

4.) Create a new Repository -add 2 files file1.txt and file2.txt commit 2 files,modify file2.txt and commit

```
MINGW64:/f/assignment/assignment1
                                                                            Anirban@DESKTOP-QI1FPAD MINGW64 /f/assignment
$ mkdir assignment1
Anirban@DESKTOP-QI1FPAD MINGW64 /f/assignment
$ cd assignment1
Anirban@DESKTOP-QI1FPAD MINGW64 /f/assignment/assignment1
$ touch file1.txt
Anirban@DESKTOP-QI1FPAD MINGW64 /f/assignment/assignment1
$ touch file2.txt
Anirban@DESKTOP-QI1FPAD MINGW64 /f/assignment/assignment1
Initialized empty Git repository in F:/assignment/assignment1/.git/
Anirban@DESKTOP-QI1FPAD MINGW64 /f/assignment/assignment1 (master)
$ git add .
Anirban@DESKTOP-QI1FPAD MINGW64 /f/assignment/assignment1 (master)
$ git commit -m "add file1 and file2"
[master (root-commit) dab3d4b] add file1 and file2
2 files changed, 0 insertions(+), 0 deletions(-)
create mode 100644 file1.txt
create mode 100644 file2.txt
Anirban@DESKTOP-QI1FPAD MINGW64 /f/assignment/assignment1 (master)
```



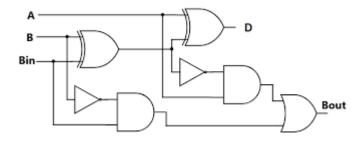
```
Anirban@DESKTOP-QI1FPAD MINGW64 /f/assignment/assignment1 (master)
$ git add file2.txt

Anirban@DESKTOP-QI1FPAD MINGW64 /f/assignment/assignment1 (master)
$ git commit -m "modified file2"
[master 3bd20f9] modified file2
1 file changed, 1 insertion(+)
```

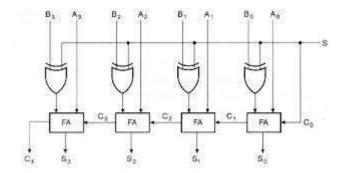
5.) Create logic function to compare 2 sets of numbers and show which is greater.eg:100>50

Let F1(P,Q) be the logic function where if P > Q then it gives 1 else 0. Let F2(P,Q) be the logic function where if P = Q then it gives 1 else 0. Let P3(P,Q) be the logic function where if P < Q then it gives 1 else 0.

A subtractor logic - D(p,q,Bin) = p XOR q XOR Bin Bout(p,q,Bin) = p'.Bin + p'.q + q.Bin



The above are subtractor logic of 1-bit number. In n-bit subtractor, the Bout of lower position bit is fed into Bin of higher position bit. A 4-bit logic circuit for adder-subractor is given below —



Let the N bit number be A and B. The CO will be 1. The output will be Sn....SO of N-bit and 1-bit Bout.



Let Z =

F2(A,B) = Z'

F1(A,B) = Z.Bout'

F3(A,B) = Z.Bout