Report Title: Text to Binary Conversion

Department: Computer Science and Engineering

Course Title: Data Communication (LAB)

Course Code: CSE-304

Course Teacher:

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Submitted By:

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Sec: A2

Project No: 1

Project Name: Text to Binary Conversion using Python.

Objectives: To Learn Basic Representation of Data in Computer Memory by Converting Text into Binary.

Programming Language:

I use Python programming language to complete this project

Python Library:

 I use binascci library of python programming for text to binary conversion.

Requirements:

- Python2.7
- IDLE
- Windows 7/8/10 Operating System.

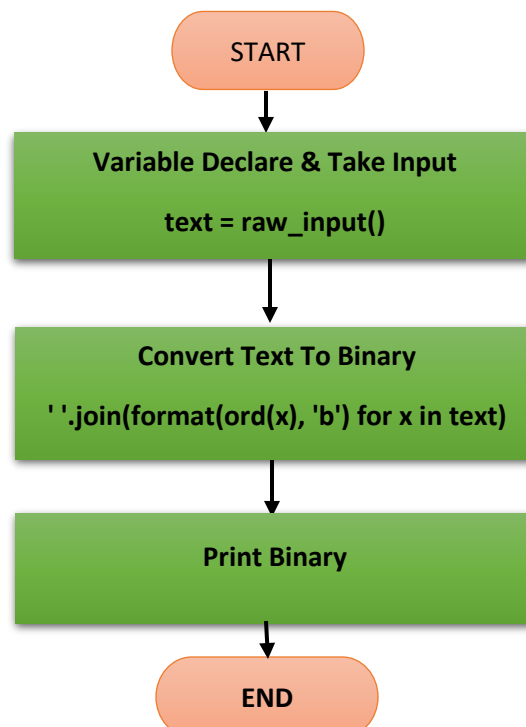**Algorithm:**

Step 1: Start IDLE

Step 2: Import binascii

Step 3: Declare Variable (text) and Take raw input from user

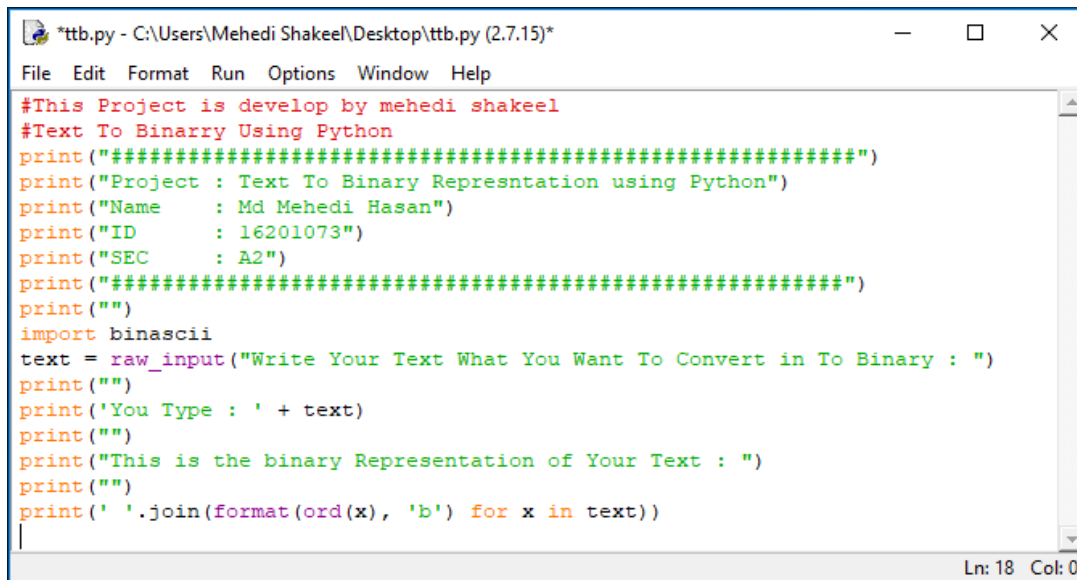Step 4: Print user given string

Step 5: Convert string to binary using "Join" function

Step 6: Print the Binary Representation

Flowchart:

```
                    ┌───────────┐
                    │   START   │
                    └───────────┘
                          │
                          ▼
        ┌─────────────────────────────────────┐
        │    Variable Declare & Take Input     │
        │                                      │
        │           text = raw_input()         │
        └─────────────────────────────────────┘
                          │
                          ▼
        ┌─────────────────────────────────────┐
        │         Convert Text To Binary        │
        │                                      │
        │  ' '.join(format(ord(x), 'b') for x in text)  │
        └─────────────────────────────────────┘
                          │
                          ▼
        ┌─────────────────────────────────────┐
        │             Print Binary             │
        └─────────────────────────────────────┘
                          │
                          ▼
                    ┌───────────┐
                    │    END    │
                    └───────────┘
```

Code & Screenshot:

```
*ttb.py - C:\Users\Mehedi Shakeel\Desktop\ttb.py (2.7.15)*          —   □   ✕
File  Edit  Format  Run  Options  Window  Help
#This Project is develop by mehedi shakeel
#Text To Binarry Using Python
print("#########################################################")
print("Project : Text To Binary Represntation using Python")
print("Name    : Md Mehedi Hasan")
print("ID      : 16201073")
print("SEC     : A2")
print("#########################################################")
print("")
import binascii
text = raw_input("Write Your Text What You Want To Convert in To Binary : ")
print("")
print('You Type : ' + text)
print("")
print("This is the binary Representation of Your Text : ")
print("")
print(' '.join(format(ord(x), 'b') for x in text))

                                                           Ln: 18  Col: 0
```

Output:

```
Python 2.7.15 Shell                                             —   □   ✕
File  Edit  Shell  Debug  Options  Window  Help
Python 2.7.15 (v2.7.15:ca079a3ea3, Apr 30 2018, 16:30:26) [MSC v.1500 64 bit (AMD6
4)] on win32
Type "copyright", "credits" or "license()" for more information.
>>>
=============== RESTART: C:\Users\Mehedi Shakeel\Desktop\ttb.py ===============
#########################################################
Project : Text To Binary Represntation using Python
Name    : Md Mehedi Hasan
ID      : 16201073
SEC     : A2
#########################################################

Write Your Text What You Want To Convert in To Binary : My Name is Mehedi Shakeel
& This Going to Convert this String into Binary

You Type : My Name is Mehedi Shakeel & This Going to Convert this String into Bina
ry

This is the binary Representation of Your Text :

1001101 1111001 100000 1001110 1100001 1101101 1100101 100000 1101001 1110011 1000
00 1001101 1100101 1101000 1100101 1100100 1101001 100000 1010011 1101000 1100001
1101011 1100101 1100101 1101100 100000 100110 100000 1010100 1101000 1101001 11100
11 100000 1000111 1101111 1101001 1101110 1100111 100000 1110100 1101111 100000 10
00011 1101111 1101110 1110110 1100101 1110010 1110100 100000 1110100 1101000 11010
01 1110011 100000 1010011 1110100 1110010 1101001 1101110 1100111 100000 1101001 1
101110 1110100 1101111 100000 1000010 1101001 1101110 1100001 1110010 1111001
>>> |

                                                           Ln: 19  Col: 4
```