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**REG NO – 201700338**  
**SEC – B**

**AI Interview / assignment questions**  
**Part A: MCQ**

**Answers:**

1. B
2. B
3. B
4. D
5. C
6. C
7. A
8. D
9. D
10. C
11. A
12. D
13. C
14. A
15. C
16. D
17. A
18. C
19. C
20. D
21. B
22. B
23. C
24. D
25. A

**Part B: Fill in the blanks with correct option:**

**Answers :**

1. Decrease
2. Non-linear, regression, decrease
3. Classification
4. Testing, Training
5. -1 to 256

**Part C: Long Questions :**

Q1.

```
from nltk.tokenize import word_tokenize
```

```

from string import punctuation
import nltk
from nltk.corpus import stopwords
from nltk.stem import SnowballStemmer
from nltk.stem import WordNetLemmatizer

```

text = "Steve was born in Tokyo, Japan in 1950. He moved to London with his parents when he was 5 years old. Steve started school there and his father began work at the hospital.His mother was a house wife and he had four brothers.He lived in England for 2 years then moved to Amman, Jordan where he lived there for 10 years. Steve then moved to Cyprus to study at the Mediterranean University. Unfortunately, he did not succeed and returned to Jordan. His parents were very unhappy so he decided to try in America.He applied to many colleges and universities in the States and finally got some acceptance offers from them. He chose Wichita State University in Kansas. His major was Bio-medical Engineering. He stayed there for bout six months and then he moved again to a very small town called Greensboro to study in a small college."

```

Lower_one(text)
Punctuation_two(text)
Stopword_three(text)
Stemming_four(text)
Lemattize_five(text)
Whitespaces_six(text)

```

```

def Punctuation_two (t):
    print(''.join(s for s in t if s not in punctuation))

```

```

def do_stemming(text):
    stopword = stopwords.words('english')
    snowball_stemmer = SnowballStemmer('english')
    tokens = nltk.word_tokenize(text)
    word = [snowball_stemmer.stem(word) for word in tokens]
    print (word)
def Stopword_three (text):
    stopword = stopwords.words('english')
    tokens = nltk.word_tokenize(text)
    stopwords = [word for word in tokens if word not in stopword]
    print (stopwords)

```

```

def Lemattize_five (text):
    stopword = stopwords.words('english')
    lemmatizer = WordNetLemmatizer()
    word_tokens = nltk.word_tokenize(text)
    lemmatized = [lemmatizer.lemmatize(word) for word in word_tokens]
    print (lemmatized)
def Whitespaces_six (text):
    print(text.replace(" ", ""))

```

```

def Lower_one (text):
    print(' '.join([w.lower() for w in word_tokenize(text)]))

```

Q2.

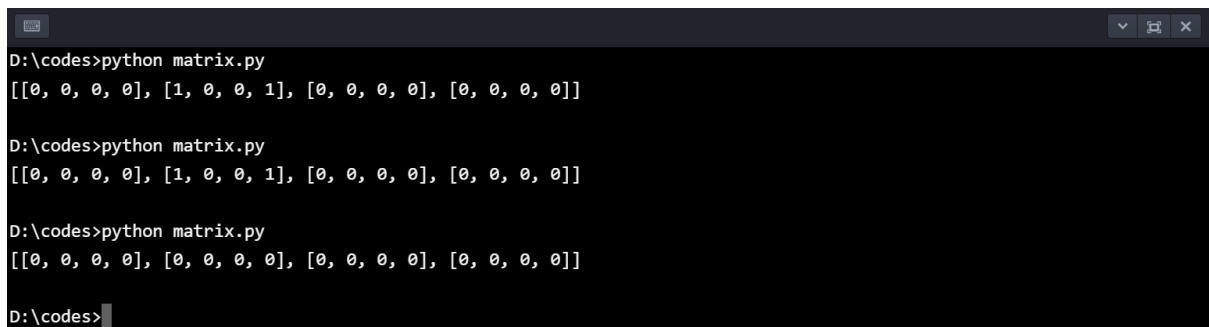
Q3.

Solution:

```
def convert(mat_value):
    coloumn = False
    row = len(mat_value)
    col = len(mat_value[0])
    for i in range(row):
        if mat_value[i][0] == 0:
            coloumn = True
        for j in range(1, col):
            if mat_value[i][j] == 0:
                mat_value[0][j] = 0
                mat_value[i][0] = 0

    for i in range(1, row):
        for j in range(1, col):
            if not mat_value[i][0] or not mat_value[0][j]:
                mat_value[i][j] = 0

    if mat_value[0][0] == 0:
        for j in range(col):
            mat_value[0][j] = 0
    if coloumn:
        for i in range(row):
            mat_value[i][0] = 0
    print(mat_value)
mat_value = [[1,1,0,1],[1,0,0,0],[1,1,0,1],[1,0,1,1]]
convert(mat_value)
```



```
D:\codes>python matrix.py
[[0, 0, 0, 0], [1, 0, 0, 1], [0, 0, 0, 0], [0, 0, 0, 0]]

D:\codes>python matrix.py
[[0, 0, 0, 0], [1, 0, 0, 1], [0, 0, 0, 0], [0, 0, 0, 0]]

D:\codes>python matrix.py
[[0, 0, 0, 0], [0, 0, 0, 0], [0, 0, 0, 0], [0, 0, 0, 0]]

D:\codes>
```

Terminal Snapshot for different test cases (Only answers are printed).