

DATE:22.12.23

QUIZ-2

1. Get the values from the user and store it in 3*3 matrix. Display the matrix.

CODE:

```
#include <stdio.h>

int main() {
    int matrix[3][3];

    printf("Enter values for the 3x3 matrix:\n");
    for (int i = 0; i < 3; ++i) {
        for (int j = 0; j < 3; ++j) {
            printf("Enter value for element (%d, %d): ", i + 1, j + 1);
            scanf("%d", &matrix[i][j]);
        }
    }

    // Display the matrix
    printf("\nMatrix:\n");
    for (int i = 0; i < 3; ++i) {
        for (int j = 0; j < 3; ++j) {
            printf("%d\t", matrix[i][j]);
        }
        printf("\n");
    }

    return 0;
}
```

2. Write a program to get the output

Input: a1b10

Output: abbbbbbbbbb

PROGRAM CODE:

```
#include <stdio.h>
#include <string.h>

int main() {
    char input[100];
    printf("Input: ");
    scanf("%s", input);

    int length = strlen(input);
    char currentChar;
    int count;

    printf("Output: ");
```

```

        for (int i = 0; i < length; ++i) {
            currentChar = input[i];

            if (isalpha(currentChar)) {
                printf("%c", currentChar);
            } else if (isdigit(currentChar)) {
                count = currentChar - '0';
                for (int j = 1; j < count; ++j) {
                    printf("%c", input[i - 1]);
                }
            }
        }

        printf("\n");

        return 0;
    }
}

```

3. Print the pattern without using arrays PROGRAM CODE:

```

#include <stdio.h>

int main() {
    int n = 5;
    int current = 1;

    for (int i = 1; i <= n; ++i) {
        for (int j = 1; j <= i; ++j) {
            printf("%d ", current);
            current += 2;
        }
        printf("\n");
    }

    return 0;
}

```

