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Page no - 3

### Question 3

Write a C program to implement Route Cipher encryption/decryption.

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

int main()
{
    char plaintext[100], ar[5][5];
    char temptext[] = "zzzzzzzzzzzzzzzz";
    printf("enter plain text\n");
    fflush(stdin);
    fgets(plaintext, sizeof(plaintext), stdin);
    fgets int k=0, k2=0;
    while (plaintext[k] != '\0')
    {
        if (isalpha(plaintext[k])) {temptext[k2] = plaintext[k];}
        {k2++;}
        k++;
    }
    puts(temptext);
    printf("\n");
    k=0;
    for (int j=0; j<5; j++)
    {
        for (int i=0; i<5; i++)
        {
            ar[i][j] = temptext[k];
            k++;
        }
    }
}
```

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```
for (int i = 0; i < 5; ++i)
{
    for (int j = 0; j < 5; ++j)
    {
        printf("%d\t", ar[i][j]);
    }
    printf("\n");
}
return 0;
}
```