

## Test 08 // 01 Jan 2025

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Q1) User login using password and verify using hardcoded otp.

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

void checkValidation(int savedOtp)
{
    int otp;
    printf("Your OTP is %d\n", savedOtp);
    printf("Enter 4 Digit num displayed above\n");
    scanf("%d", &otp);
    if (otp == savedOtp)
    {
        printf("Login successfully...\n");
    }
    else
    {
        printf("Verification Failed...\n");
    }
}

int main()
{
    int userid, savedUID = 2128585, count = 0, savedOtp = 2578, otp;
    char password[20], savedPassword[20] = "1234Arjun";
    printf("Enter user id\n");
    scanf("%d", &userid);

    if (userid == savedUID)
    {
        printf("Enter Password\n");
        scanf("%s", password);
    }
    else
    {
        printf("User not found...\n");
        return 0;
    }

    if (strcmp(password, savedPassword) == 0)
    {
        checkValidation(savedOtp);
    }
    else
    {

```

```

while (password[0] != '\0')
{
    printf("Press 0 to exit\n");
    printf("Enter Valid password\n");
    scanf("%s", password);
    if (strcmp(password, savedPassword) == 0)
    {
        checkValidation(savedOtp);
    }
    else if (count == 1)
    {
        printf("Account blocked...!\n");
        break;
    }
    else
    {
        printf("Wrong Password Retry...!!!\n");
        count++;
    }
}

return 0;
}

```

```

Enter user id
2128585
Enter Password
1234Arjun
Your OTP is 2578
Enter 4 Digit num displayed above
2578
Login successfully...!

```

Q2) Reverse string using user defined function.

```

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

char* revStr(char* str){
    int len = strlen(str);
    for (int i = 0; i <= len/2; i++)
    {
        char temp = str[i];
        str[i] = str[len-i-1];
        str[len-i-1] = temp;
    }
    return str;
}

```

```
int main(){
    char str[20];
    printf("Enter String\n");
    scanf("%s", str);

    printf("Reversed String --> %s", revStr(str));
    return 0;
}
```

```
Enter String
hello
Reversed String --> olleh
```