

Practical.no - 7

Title - Write a program to check strength of password.

```
def checkPassword(password):
    upperChars, lowerChars, specialChars, digits, length = 0, 0, 0, 0, 0
    length = len(password)

    if (length < 6):
        print("Password must be at least 6 characters long!\n")
    else:
        for i in range(0, length):
            if (password[i].isupper()):
                upperChars += 1
            elif (password[i].islower()):
                lowerChars += 1
            elif (password[i].isdigit()):
                digits += 1
            else:
                specialChars += 1

        if (upperChars != 0 and lowerChars != 0 and digits != 0 and
            specialChars != 0):
            if (length >= 10):
                print("The strength of password is strong.\n")
            else:
                print("The strength of password is medium.\n")
        else:
            if (upperChars == 0):
                print("Password must contain at least one uppercase
character!\n")
            if (lowerChars == 0):
                print("Password must contain at least one lowercase
character!\n")
            if (specialChars == 0):
                print("Password must contain at least one special
character!\n")
            if (digits == 0):
                print("Password must contain at least one digit!\n")

password = input("Please enter password: ")
checkPassword(password)
```

Output:

Please enter password: Geca123

Password must contain at least one special character!

Please enter password: 123@Geca

The strength of password is medium.