Practical Problems

- 1. Having a secure password is a very important practice, when much of our information is stored online. Write a function called *String validatePassword* (String oldPassword, String newPassword) to validate the new password the user will enter by the user and return a message either a message with some error to reenter the password or an empty string that means a successful change. The main function will call *validatePassword* function. Write a program that validates a new password, following these rules:
 - The password must be at least 8 characters long.
 - The password must have at least one uppercase and one lowercase letter
 - The old password must not a part of the new password
 - The password must contain at least 1 digit.

Write a program that asks for a password, then asks again to confirm it. If the passwords don't match or the rules are not fulfilled, prompt again. Your program

Sample output

```
Enter old Password: mazenkarimali
Enter new Password: mazenkarimali

Old Password can't be a part from new
New password must contain at least one digit
New password must contain at least one uppercase letter

Enter old Password: mazenkarimali
Enter new Password: Aliali2002001

Succeful Change!
```

- 2. A non-governmental organization needs a program to calculate the amount of financial assistance for needy families. The formula is as follows:
 - If the annual household income is between \$30,000 and \$40,000 and the household has at least three children, the amount is \$1,000 per child.
 - If the annual household income is between \$20,000 and \$30,000 and the household has at least two children, the amount is \$1,500 per child.
 - If the annual household income is less than \$20,000, the amount is \$2,000 per child.

Implement a method for this computation. Write a program that asks for the household income and number of children for each applicant, printing the amount returned by your method. The user will enter values until the user use -1.