

CP MINI PROJECT

~MATCHMAKING SERVICE~

Rohan Shah 60002210091
Karan Bhanushaali 60002210092
Ayushi Kansara 60002210107
Ishika Jain 60002210123

CONCEPTS USED:

1. Functions
2. Strings
3. Structures
4. Array of structure variables
5. Loops
6. Conditional statements
7. Standard I/O

CODE:

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

struct client
{
    int age, sex, status, branch, br_pref;
    char name[50], pass[8];
};

int passcheck ()
{
    int i, L1, L2;
    char p[10];
    char v[10];
    struct client c[30];
    printf ("\nCreate an 8 character password: \n");
    scanf ("%s", &p);
    printf ("\nEnter password again for verification:\n");
    scanf ("%s", &v);
```

```

L1=strlen(p);
L2=strlen(v);
if (L1=L2 && L1==8)
{
    i = strcmp (p, v);
    if (i == 0)
    {

printf("*****\n");
        printf("*          WELCOME          *\n");
        printf("*  YOUR ACCOUNT HAS BEEN SUCCESSFULLY CREATED  *\n");

printf("*****\n");
    }

    else
    {
        printf ("\npasswords do not match:(\n");
        passcheck ();
    }
}
else
{
    printf("\nYour password is NOT 8 characters please try again^ _^\n");
    passcheck();
}
}

int agecheck()
{
    struct client c[30];
    printf ("\nEnter your age:\n");
    scanf ("%d", &c[0].age);
    if (c[0].age<18)
    {
        printf("\nyou are not old enough to use this service we're sorry:(\n");
        agecheck();
    }
}

```

```

void main ()
{
    struct client c[30];

    printf("*****\n");
    printf("**          WELCOME TO OUR MATCHMAKING SERVICE          *\n");
    printf("**          ~MaTcHiNg SoUlS NoT bOdles~          *\n");

    printf("*****\n");

    printf ("Enter your name:\n");
    scanf ("%s", &c[0].name[25]);
    passcheck ();
    agecheck ();
    printf ("\nEnter your gender:\n ~1 for male and 2 for female~\n");
    scanf ("%d", &c[0].sex);
    printf("\n~Select your branch~\nEnter 1 for EXTC, 2 for IT, 3 for Comps, 4 for
    Mech, 5 for AIDS, 6 for AIML, 7 for IoT, 8 DS\n");
    scanf ("%d", &c[0].branch);

    printf("\nOUR EXISTING CLIENTS ARE AS FOLLOWS \n");
    c[1].name[50] = "Bunan Boshi";c[1].age = 18;c[1].sex = 1;c[1].branch = 1;
    c[2].name[50] = "rohan shah";c[2].age = 18;c[2].sex = 1;c[2].branch = 1;
    c[3].name[50] = "ayushi kansara";c[3].age = 18;c[3].sex = 2;c[3].branch = 1;
    c[4].name[50] = "ishika pain";c[4].age = 18;c[4].sex = 2;c[4].branch = 1;
    c[5].name[50] = "prisha dhoke";c[5].age = 18;c[5].sex = 2;c[5].branch = 1;
    c[6].name[50] = "dharmil singh";c[6].age = 18;c[6].sex = 1;c[6].branch = 8;
    c[7].name[50] = "yash chopra";c[7].age = 18;c[7].sex = 1;c[7].branch = 5;
    c[8].name[50] = "karan bhanushali";c[8].age = 18;c[8].sex = 1;c[8].branch = 1;
    c[9].name[50] = "milan sharma";c[9].age = 19;c[8].sex = 1; c[9].branch = 2;
    c[10].name[50] = "lakshata thakur";c[10].age = 18;c[10].sex = 2;c[10].branch =
    2;
    c[11].name[50] = "jagtaap jain";c[11].age = 18;c[11].sex = 1;c[11].branch = 4;
    c[12].name[50] = "shalaka bonerjee";c[12].age = 19;c[13].sex = 2;c[3].branch =
    3;
    c[13].name[50] = "shreya patak";c[13].age = 19;c[13].sex = 2;c[13].branch = 6;

```

```

c[14].name[50] = "gaurav bhatt";c[14].age = 19;c[14].sex = 1;c[14].branch = 4;
c[15].name[50] = "manthan patel";c[15].age = 18;c[15].sex = 1;c[15].branch =
4;
c[16].name[50] = "yash gulati";c[16].age = 18;c[16].sex = 1;c[16].branch = 3;
c[17].name[50] = "ankita sodawala";c[17].age = 19;c[17].sex = 2;c[17].branch =
4;
c[18].name[50] = "siddhi shah";c[18].age = 19;c[18].sex = 2;c[18].branch = 8;
c[19].name[50] = "aryan thakur";c[19].age = 18;c[19].sex = 1;c[19].branch = 6;
c[20].name[50] = "shyamala krishnamurthy";c[20].age = 19;c[20].sex =
2;c[20].branch = 7;
c[21].name[50] = "yash pandya";c[21].age = 18;c[21].sex = 1;c[21].branch = 7;
c[22].name[50] = "sparshil veda";c[22].age = 18;c[22].sex = 1;c[22].branch = 3;

```

```

for(int i=1; i<=22; i++)
{
    printf("\n%d|", i);
    printf("\t|s|", c[i].name);
    printf("\t|age: %d|", c[i].age);
    if (c[i].sex == 1)
    {
        printf ("\t|sex: male |");
    }
    else
    {
        printf ("\t|sex: female|");
    }

    //for displaying branch
    if (c[i].branch == 1)
    {
        printf ("\t|branch: EXTC |");
    }
    else
    {
        if (c[i].branch == 2)
        {
            printf ("\t|branch: IT |");
        }
        else

```

```

{
    if (c[i].branch == 3)
    {
        printf ("\t|branch: Comps|");
    }
    else
    {
        if (c[i].branch == 4)
        {
            printf ("\t|branch: Mech |");
        }
        else
        {
            if (c[i].branch == 5)
            {
                printf ("\t|branch: AI DS|");
            }
            else
            {
                if (c[i].branch == 6)
                {
                    printf ("\t|branch: AI ML|");
                }
            }
            else
            {
                if (c[i].branch == 7)
                {
                    printf ("\t|branch: IoT |");
                }
            }
            else
            {
                printf ("\t|branch: DS |");
            }
        }
    }
}
}
}
}
}
}
}
}

```

```

printf("\n~Enter your branch preference~\nEnter 1 for EXTC, 2 for IT, 3 for
Comps, 4 for Mech, 5 for AIDS, 6 for AIML, 7 for IoT, 8 DS\n");
scanf("%d", &c[0].br_pref);

for (int i=1; i<22; i++)
{
    if(c[i].sex!=c[0].sex)
    {
        if(c[0].br_pref==c[i].branch)
        {
            printf("\n~YOU HAVE BEEN MATCHED WITH:\n \t%s \t%d", c[i].name,
c[i].age);
        }
    }
}

```

OUTPUT:

Screenshot 1:

```
*****
*           WELCOME TO OUR MATCHMAKING SERVICE           *
*           ~MaTcHiNg SoUls NoT bodIes~                 *
*****
Enter your name:
ayushi

Create an 8 character password:
cpmini

Enter password again for verification:
cpmini

Your password is NOT 8 characters please try again^_^

Create an 8 character password:
12345678

Enter password again for verification:
1234567

passwords do not match:(

Create an 8 character password:
miniproj

Enter password again for verification:
miniproj
*****
*                               WELCOME                               *
*   YOUR ACCOUNT HAS BEEN SUCCESSEFULLY CREATED   *
*****
```

Screenshot 2:

```

Enter your age:
15

you are not old enough to use this service we're sorry:(

Enter your age:
18

Enter your gender:
~1 for male and 2 for female~
2

~Select your branch~
Enter 1 for EXTC, 2 for IT, 3 for Comps, 4 for Mech, 5 for AIDS, 6 for AIML, 7 for IoT, 8 DS
1

OUR EXISTING CLIENTS ARE AS FOLLOWS

1|      ||      |age: 18|      |sex: male |      |branch: EXTC |
2|      |◆|      |age: 18|      |sex: male |      |branch: EXTC |
3|      |s|      |age: 18|      |sex: female|      |branch: Comps|
4|      ||      |age: 18|      |sex: female|      |branch: EXTC |
5|      |◆|      |age: 18|      |sex: female|      |branch: EXTC |
6|      ||      |age: 18|      |sex: male |      |branch: DS    |
7|      |◆|      |age: 18|      |sex: male |      |branch: AI DS|
8|      ||      |age: 18|      |sex: male |      |branch: EXTC |
9|      |s|      |age: 19|      |sex: female|      |branch: IT    |
10|     ||      |age: 18|      |sex: female|      |branch: IT    |
11|     ||      |age: 18|      |sex: male |      |branch: Mech  |
12|     ||      |age: 19|      |sex: female|      |branch: DS    |
13|     ||      |age: 19|      |sex: female|      |branch: AI ML|
14|     |s|      |age: 19|      |sex: male |      |branch: Mech  |
15|     ||      |age: 18|      |sex: male |      |branch: Mech  |
16|     |◆|      |age: 18|      |sex: male |      |branch: Comps|
17|     |s|      |age: 19|      |sex: female|      |branch: Mech  |
18|     |◆|      |age: 19|      |sex: female|      |branch: DS    |
19|     |      |age: 18|      |sex: male |      |branch: AI ML|

```

Screenshot 3:

```

19|     |      |age: 18|      |sex: male |      |branch: AI ML|
20|     |◆|      |age: 19|      |sex: female|      |branch: IoT   |
21|     |s|      |age: 18|      |sex: male |      |branch: IoT   |
22|     ||      |age: 18|      |sex: male |      |branch: Comps|

~Enter your branch preference~
Enter 1 for EXTC, 2 for IT, 3 for Comps, 4 for Mech, 5 for AIDS, 6 for AIML, 7 for IoT, 8 DS
7

~YOU HAVE BEEN MATCHED WITH:
s      18

```