

## Logo Description

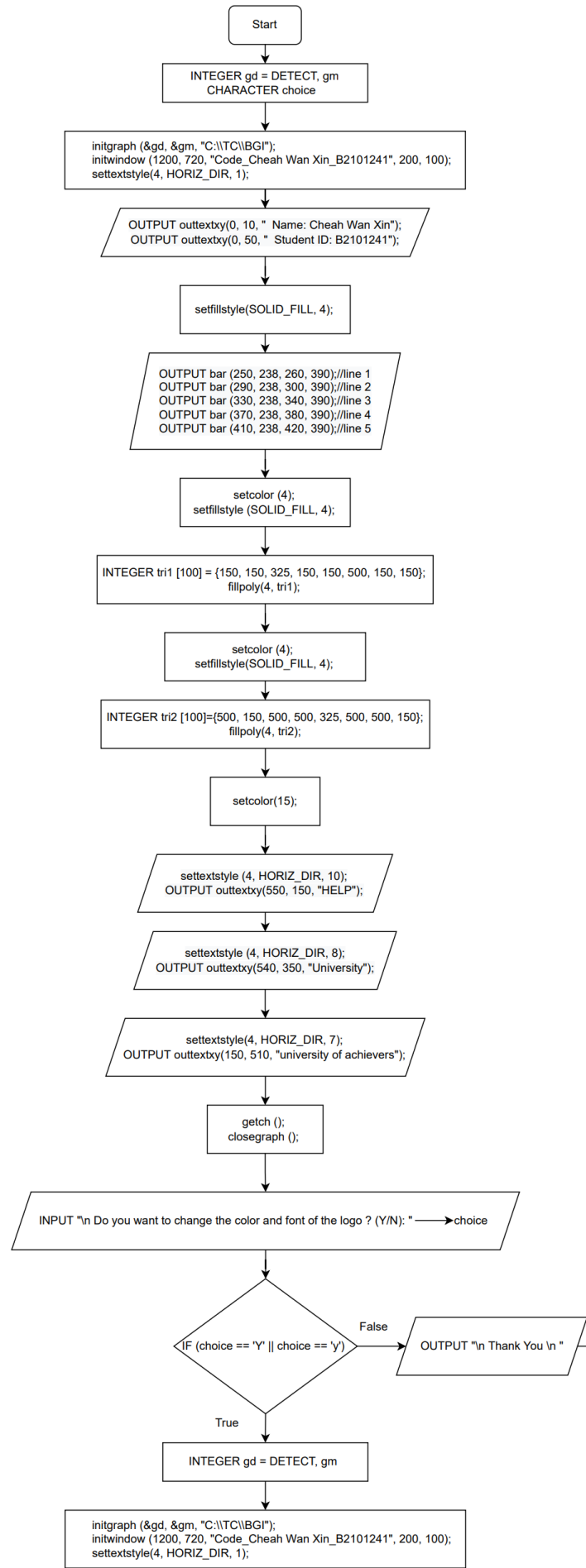


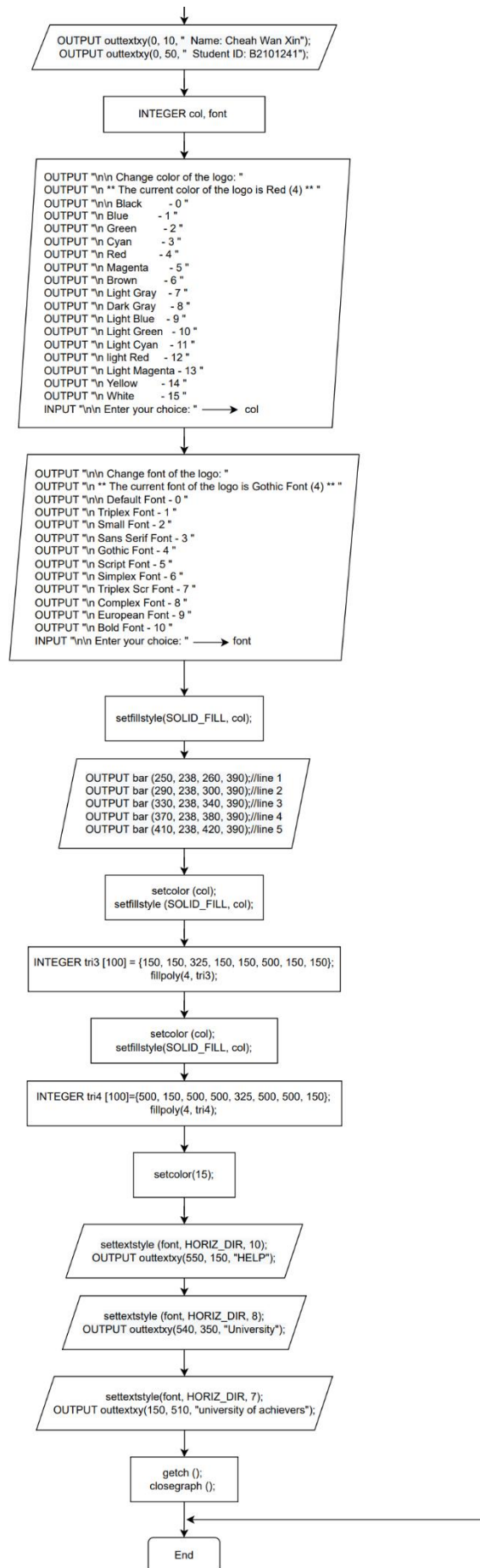
This is the logo for HELP University. This brand is from Malaysia. This business's brand is involved in the education field. HELP University was founded in 1986 to provide affordable quality educational opportunities for Malaysian. It has since developed into a leading institution of higher learning in Malaysia with an international reputation among universities, scholars, business, corporate leaders, and governments. In addition, they offer a wide and diverse range of programmes covering business, law, economics, information technology (IT), the social sciences, and the humanities at undergraduate and graduate levels.

Uniform Resource Locator (URL) for the brand:

<https://university.help.edu.my/>

## Flowchart





## **Pseudocode**

START

INTEGER gd = DETECT, gm

CHARACTER choice

Initgraph (&gd, &gm, "C:\\TC\\BGI");

Initwindow (1200, 720, "Code\_Cheah Wan Xin\_B2101241", 200, 100);

Settextstyle (4, HORIZ\_DIR, 1);

OUTPUT outtextxy (0, 10, " Name: Cheah Wan Xin");

OUTPUT outtextxy (0, 50, " Student ID: B2101241");

Setfillstyle (SOLID\_FILL, 4);

OUTPUT bar (250, 238, 260, 390);

OUTPUT bar (290, 238, 300, 390);

OUTPUT bar (330, 238, 340, 390);

OUTPUT bar (370, 238, 380, 390);

OUTPUT bar (410, 238, 420, 390);

Setcolor (4);

Setfillstyle (SOLID\_FILL, 4);

INTEGER tri1 [100] = { 150, 150, 325, 150, 150, 500, 150, 150};

Fillpoly(4, tri1);

Setcolor(4);

Setfillstyle(SOLID\_FILL, 4);

INTEGER tri2 [100] = { 500, 150, 500, 500, 325, 500, 500, 150};

Fillpoly (4, tri2);

Setcolor(15);

Settextstyle (4, HORIZ\_DIR, 10);

OUTPUT outtextxy (550, 150, "HELP");

Settextstyle (4, HORIZ\_DIR, 8);

OUTPUT outtextxy (540, 350, "University");

Settextstyle (4, HORIZ\_DIR, 7);

OUTPUT outtextxy (150, 510, "university of achievers");

OUTPUT "\n Do you want to change the color and font of the logo? (Y/N): "

INPUT choice

IF (choice == 'Y' || choice == 'y')

INTEGER gd = DETECT, gm

Initgraph (&gd, &gm, "C:\\TC\\BGI");

Initwindow (1200, 720, "Code\_Cheah Wan Xin\_B2101241", 200, 100);

Settextxy (4, HORIZ\_DIR, 1);

OUTPUT outtextxy (0, 10, " Name: Cheah Wan Xin");

OUTPUT outtextxy (0, 50, " Student ID: B2101241");

INTEGER col, font

OUTPUT "\n\n Change color of the logo: "

OUTPUT "\n \*\* The current color of the logo is Red (4) \*\* "

OUTPUT "\n\n Black - 0 "

OUTPUT "\n Blue - 1 "

OUTPUT "\n Green - 2 "

OUTPUT "\n Cyan - 3 "

OUTPUT "\n Red - 4 "

OUTPUT "\n Magenta - 5 "

OUTPUT "\n Brown - 6 "

OUTPUT "\n Light Gray - 7 "

OUTPUT "\n Dark Gray - 8 "

OUTPUT "\n Light Blue - 9 "

OUTPUT "\n Light Green - 10 "

OUTPUT "\n Light Cyan - 11 "

OUTPUT "\n light Red - 12 "

OUTPUT "\n Light Magenta - 13 "

OUTPUT "\n Yellow - 14 "

OUTPUT "\n White - 15 "

OUTPUT "\n\n Enter your choice: "

INPUT col

OUTPUT "\n\n Change font of the logo: "

OUTPUT "\n \*\* The current font of the logo is Gothic Font (4) \*\* "

OUTPUT "\n\n Default Font - 0 "

OUTPUT "\n Triplex Font - 1 "

OUTPUT "\n Small Font - 2 "

OUTPUT "\n Sans Serif Font - 3 "

OUTPUT "\n Gothic Font - 4 "

OUTPUT "\n Script Font - 5 "

OUTPUT "\n Simplex Font - 6 "

OUTPUT "\n Triplex Scr Font - 7 "

OUTPUT "\n Complex Font - 8 "

OUTPUT "\n European Font - 9 "

OUTPUT "\n Bold Font - 10 "

OUTPUT "\n\n Enter your choice: "

INPUT font

Setfillsyle (SOLID\_FILL, col);

OUTPUT bar (250, 238, 260, 390);

OUTPUT bar (290, 238, 300, 390);

OUTPUT bar (330, 238, 340, 390);

OUTPUT bar (370, 238, 380, 390);

OUTPUT bar (410, 238, 420, 390);

Setcolor (col);

```

Setfillstyle (SOLID_FILL, col);

INTEGER tri3 [100] = { 150, 150, 325, 150, 150, 500, 150, 150};

Fillpoly(4, tri3);

Setcolor (col);

Setfillstyle (SOLID_FILL, col);

INTEGER tri4 [100] = { 500, 150, 500, 500, 325, 500, 500, 150};

Fillpoly(4, tri4);
Setcolor(15);

Settextstyle (font, HORIZ_DIR, 10);

OUTPUT outtextxy (550, 150, "HELP");

Settextstyle (font, HORIZ_DIR, 8);

OUTPUT outtextxy(540, 350, "University");

Settextstyle(font, HORIZ_DIR, 7);

OUTPUT outtextxy(150, 510, "university of achievers");

Getch ();

Closegraph ();

ELSE

    OUTPUT "\n Thank You. \n"

Getch ();

Closegraph ();

END

```

## Instructions to run the program

The program will begin by displaying the logo of HELP University as shown in Figure 2. Next, the program will prompt for the colour and font of whether the user wants to change the colour of the logo. If the user wants to change the colour and font, the program will proceed to the next stage using the user-defined function. If the user does not want to change the colour and font of the logo, the program will end. After prompts for the types of fonts and colour, the program will display a different colour and font logo based on what the user inputs. A sample output is shown in Figure 1.

**Figure 1**

Code:

```
here X Code_Cheah Wan Xin_B2101241.cpp X
1 //Name : Cheah Wan Xin
2 //Student ID: B2101241
3 #include <stdio.h>
4 #include <graphics.h>
5 #include <windows.h>
6
7 int change()
8 {
9     int gd = DETECT, gm;
10
11     initgraph(&gd, &gm, "C:\\TC\\BGI");
12
13     initwindow(1200, 720, "Code_Cheah Wan Xin_B2101241", 200, 100);
14
15     settextstyle(4, HORIZ_DIR, 1);
16     outtextxy(0, 10, " Name: Cheah Wan Xin");
17     outtextxy(0, 50, " Student ID: B2101241");
18
19     int col, font;
20
21     printf("\n\n Change color of the logo: ");
22     printf("\n ** The current color of the logo is Red (4) ** ");
23     printf("\n\n Black - 0 ");
24     printf("\n Blue - 1 ");
25     printf("\n Green - 2 ");
26     printf("\n Cyan - 3 ");
27     printf("\n Red - 4 ");
28     printf("\n Magenta - 5 ");
29     printf("\n Brown - 6 ");
30     printf("\n Light Gray - 7 ");
31     printf("\n Dark Gray - 8 ");
32     printf("\n Light Blue - 9 ");
33     printf("\n Light Green - 10 ");
34     printf("\n Light Cyan - 11 ");
35     printf("\n light Red - 12 ");
36     printf("\n Light Magenta - 13 ");
37     printf("\n Yellow - 14 ");
38     printf("\n White - 15 ");
39     printf("\n\n Enter your choice: ");
40     scanf("%d", &col);
41
```



```

ere X Code_Cheah Wan Xin_B2101241.cpp X
41
42     printf("\n\n Change font of the logo: ");
43     printf("\n ** The current font of the logo is Gothic Font (4) ** ");
44     printf("\n\n Default Font      - 0 ");
45     printf("\n Triplex Font      - 1 ");
46     printf("\n Small Font      - 2 ");
47     printf("\n Sans Serif Font - 3 ");
48     printf("\n Gothic Font      - 4 ");
49     printf("\n Script Font      - 5 ");
50     printf("\n Simplex Font      - 6 ");
51     printf("\n Triplex Scr Font - 7 ");
52     printf("\n Complex Font      - 8 ");
53     printf("\n European Font    - 9 ");
54     printf("\n Bold Font        - 10 ");
55     printf("\n\n Enter your choice: ");
56     scanf(" %d", &font);
57
58     setfillstyle(SOLID_FILL, col);
59     bar (250, 238, 260, 390); //line 1
60     bar (290, 238, 300, 390); //line 2
61     bar (330, 238, 340, 390); //line 3
62     bar (370, 238, 380, 390); //line 4
63     bar (410, 238, 420, 390); //line 5
64
65     setcolor(col);
66     setfillstyle(SOLID_FILL, col);
67     int tri3 [100]={150, 150, 325, 150, 150, 500, 150, 150};
68     fillpoly(4, tri3);
69

```

```

ere X Code_Cheah Wan Xin_B2101241.cpp X
69
70     setcolor(col);
71     setfillstyle(SOLID_FILL, col);
72     int tri4 [100]={500, 150, 500, 500, 325, 500, 500, 150};
73     fillpoly(4, tri4);
74
75     setcolor(15);
76
77     settextstyle(font, HORIZ_DIR, 10);
78     outtextxy(550, 150, "HELP");
79
80     settextstyle(font, HORIZ_DIR, 8);
81     outtextxy(540, 350, "University");
82
83     settextstyle(font, HORIZ_DIR, 7);
84     outtextxy(150, 510, "university of achievers");
85
86     getch();
87     closegraph();
88 }
89

```

Sample Output:

```
"C:\Users\marry\OneDrive\Desktop\Code_Cheah Wan Xin_B2101241.exe"

Do you want to change the color and font of the logo? (Y/N): y

Change color of the logo:
** The current color of the logo is Red (4) **

Black          - 0
Blue           - 1
Green          - 2
Cyan           - 3
Red            - 4
Magenta        - 5
Brown          - 6
Light Gray     - 7
Dark Gray      - 8
Light Blue     - 9
Light Green    - 10
Light Cyan     - 11
light Red      - 12
Light Magenta  - 13
Yellow         - 14
White          - 15

Enter your choice: 11

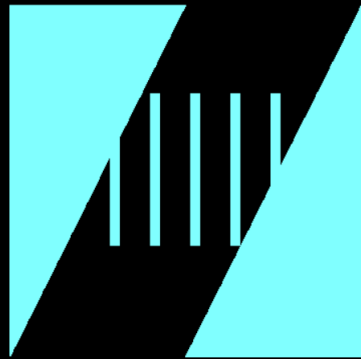
Change font of the logo:
** The current font of the logo is Gothic Font (4) **

Default Font    - 0
Triplex Font    - 1
Small Font      - 2
Sans Serif Font - 3
Gothic Font     - 4
Script Font     - 5
Simplex Font    - 6
Triplex Scr Font - 7
Complex Font    - 8
European Font   - 9
Bold Font       - 10

Enter your choice: 9
```

Name: Cheah Wan Xin

Student ID: B2101241



HELP

University

university of achievers

**Figure 2**

Code:

```
rt here X Code_Cheah Wan Xin_B2101241.cpp X
89
90 int main ()
91 {
92     int gd = DETECT, gm;
93     char choice;
94
95     initgraph(&gd, &gm, "C:\\TC\\BGI");
96
97     initwindow(1200, 720, "Code_Cheah Wan Xin_B2101241", 200, 100);
98
99     settextstyle(4, HORIZ_DIR, 2);
100    outtextxy(0, 10, "    Name: Cheah Wan Xin");
101    outtextxy(0, 50, "    Student ID: B2101241");
102
103    setfillstyle(SOLID_FILL, 4);
104    bar (250, 238, 260, 390); //line 1
105    bar (290, 238, 300, 390); //line 2
106    bar (330, 238, 340, 390); //line 3
107    bar (370, 238, 380, 390); //line 4
108    bar (410, 238, 420, 390); //line 5
109
110    setcolor(4);
111    setfillstyle(SOLID_FILL, 4);
112    int tri1 [100]={150, 150, 325, 150, 150, 500, 150, 150};
113    fillpoly(4, tri1);
114
115    setcolor(4);
116    setfillstyle(SOLID_FILL, 4);
117    int tri2 [100]={500, 150, 500, 500, 325, 500, 500, 150};
118    fillpoly(4, tri2);
119
120    setcolor(15);
121
122    settextstyle(4, HORIZ_DIR, 10);
123    outtextxy(550, 150, "HELP");
124
125    settextstyle(4, HORIZ_DIR, 8);
126    outtextxy(540, 350, "University");
127
128    settextstyle(4, HORIZ_DIR, 7);
129    outtextxy(150, 510, "university of achievers");
130
131    printf("\n Do you want to change the color and font of the logo? (Y/N): ");
132    scanf (" %c", &choice);
133
134    if (choice == 'Y' || choice == 'y'){
135        change();
136    }
137
138    else {
139        printf("\n Thank You. \n");
140    }
141
142    getch();
143    closegraph();
144 }
```

Sample Output:

