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1 #include <stdio.h>
2 #include <stdlib.h>
3 #include <string.h>
4 #include <conio.h>
5
6 #define max 2000
7 #define merah "\x1B[31m"
8 #define biru "\x1B[36m"
9 #define kuning "\x1B[33m"
10
11 // Menghubungkan ke Database
12 FILE *fold;
13 FILE *fcek;
14 FILE *fnew;
15
16 void tulis_kalender();
17 void tulis_agenda();
18 void hapus_agenda();
19
20 int tahun, int_tahun, cek_tahun = 0, int_bulan, hari, int_tggl, hari_bulan,
txt_agenda = 0, agenda = 0, pekan = 0, hari_mulai, get_hari, cek_sama = 0;
21 int tggl_bulan[12] = {31, 28, 31, 30, 31, 30, 31, 31, 30, 31, 30, 31};
22 char *bulan[12]=
{"januari", "februari", "maret", "april", "mei", "juni", "juli", "agustus", "september", "okto
ber", "november", "desember"};
23 char get_bulan[max], get_agenda[max];
24 char set_tahun[max][10], set_bulan[max][10], set_agenda[max][10], set_hari[max][10],
char_hari[max], char_tahun[max];
25 char del_bulan[max], del_agenda[max], comp_bulan[max], comp_agenda[max];
26 int del_tahun, del_tggl;
27
28 int mulai_dari(int tahun){
29     int tggl;
30     tggl = (((tahun - 1) * 365) + ((tahun - 1) / 4) - ((tahun - 1) / 100) + ((tahun)
/ 400) + 1) % 7;
31     return tggl;
32 }
33 void clear_data(){
34     fflush(stdin);
35     memset(set_tahun, 0, max);
36     memset(set_bulan, 0, max);
37     memset(set_hari, 0, max);
38     memset(set_agenda, 0, max);
39     memset(del_bulan, 0, max);
40     memset(del_agenda, 0, max);
41     memset(char_tahun, 0, max);
42     memset(char_hari, 0, max);
43
44 }
45 void tulis_agenda(){
46     fold = fopen("database.txt", "a+");
47
48     if(fold == NULL){
49         printf("\n\t| database maintenance");
50         return;
51     }
52
53     data:
54     printf("\n");
55     printf("%sdi bulan : ", biru);

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56 scanf("%s", get_bulan);
57 printf("%sdi tanggal : ",biru);
58 scanf("%d", &get_hari);
59 printf("%sagenda apa : ",biru);
60 scanf("%s", get_agenda);
61
62 if((tahun%4==0 && tahun%100!=0) || tahun%400==0){
63     tggl_bulan[1]=29;
64 }
65
66 int b, s, h;
67 b = 0;
68 while(b < 12){
69     hari_mulai = tggl_bulan[b];
70     h = 1;
71     while(h <= hari_mulai){
72         if(get_hari == h && strcmp(bulan[b], get_bulan) == 0){
73             s = 0;
74             break;
75         }else if(get_hari != h && strcmp(bulan[b], get_bulan) != 0){
76             s++;
77         }
78         h++;
79     }
80     if(s == 0){
81         break;
82     }
83     b++;
84 }
85 if(s > 0){
86     printf("\n\n\t| bulan atau tggl tidak tepat :I\n\n");
87     s = 0;
88     goto data;
89 }
90
91 fprintf(fold, "%d %s %d %s\n", tahun, get_bulan, get_hari, get_agenda);
92
93 fclose(fold);
94 agenda = 0;
95 }
96 void tulis_kalender(){
97     int warna = 0, s = 1, u = 0;
98     // s = scan beberapa
99     // u = urutan beberapa
100
101     clear_data();
102
103     if((tahun%4==0 && tahun%100!=0) || tahun%400==0){
104         tggl_bulan[1]=29;
105     }
106
107     hari_mulai = mulai_dari(tahun);
108
109     // masalah sort selesai
110     if(cek_tahun != 0){
111         fold = fopen("database.txt", "r");
112
113         while(s > 0){
114             s = fscanf(fold, "%s %s %s %s", set_tahun[u], set_bulan[u], set_hari[u],
set_agenda[u]);

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115         u++;
116     }
117
118     s = u;
119
120     int_bulan = 0;
121     while (int_bulan<12){
122         hari_bulan = tggl_bulan[int_bulan];
123
124         printf("\n\n\t%s| %s\n",biru, bulan[int_bulan]);
125         printf("\n  %sminggu  senin  Selasa  Rabu  Kamis  Jum'at  Sabtu\n",
126         biru);
127
128         pekan=0;
129         while(pekan<hari_mulai){
130             printf("          ");
131             pekan++;
132         }
133
134         hari=1;
135         while(hari<=hari_bulan){
136             sprintf(char_hari, "%d", hari);
137             sprintf(char_tahun, "%d", tahun);
138
139             u = 0;
140             while(u < s - 1){
141                 if(strcmp(char_hari, set_hari[u]) == 0 &&
142                 strcmp(bulan[int_bulan], set_bulan[u]) == 0 && strcmp(char_tahun,set_tahun[u]) == 0){
143                     cek_sama = 1;
144                     break;
145                 }
146                 else{
147                     cek_sama = 0;
148                     u++;
149                 }
150             }
151
152             if(cek_sama == 0){
153                 if(warna == 0){
154                     printf("  %s%6s",biru, char_hari);
155                 }if(warna != 0){
156                     printf("  %s%6s",merah, char_hari);
157                     warna = 0;
158                 }
159             }
160             else if(cek_sama == 1){
161                 printf("  %s%6s",kuning, char_hari);
162                 warna = 0;
163             }
164
165             if(++pekan>6){
166                 printf("\n");
167                 warna++;
168                 pekan=0;
169             }
170             hari_mulai = pekan;
171             hari++;
172         }
173         u = 0;

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173         while (u < s - 1){
174             sprintf(char_tahun, "%d", tahun);
175             if(strcmp(bulan[int_bulan], set_bulan[u]) == 0 &&
strcmp(char_tahun, set_tahun[u]) == 0){
176                 if(txt_agenda == 0){
177                     printf("\n\n");
178                     printf("%sAgenda:", kuning);
179                     printf("\n%s%s | %s", kuning, set_hari[u], set_agenda[u]);
180                     txt_agenda++;
181                 }
182                 else if(txt_agenda != 0){
183                     printf("\n%s%s | %s", kuning, set_hari[u], set_agenda[u]);
184                 }
185             }
186             u++;
187         }
188         printf("\n");
189         txt_agenda = 0;
190         int_bulan++;
191     }
192     fclose(fold);
193 }
194 else if (cek_tahun == 0){
195     int_bulan=0;
196     while (int_bulan<12){
197         hari_bulan = tggl_bulan[int_bulan];
198
199         printf("\n\n\t%s | %s\n",biru, bulan[int_bulan]);
200         printf("\n %sminggu senin Selasa Rabu Kamis  Jum'at Sabtu\n",
biru);
201
202         pekan = 0;
203         while(pekan<hari_mulai){
204             printf(" ");
205             pekan++;
206         }
207         hari=1;
208         while(hari<=hari_bulan){
209             if(warna == 0){
210                 printf(" %s%6d",biru, hari);
211             }
212             if(warna != 0){
213                 printf(" %s%6d",merah, hari);
214                 warna = 0;
215             }
216             if(++pekan>6){
217                 printf("\n");
218                 warna++;
219                 pekan=0;
220             }
221             hari_mulai = pekan;
222             hari++;
223         }
224         int_bulan++;
225     }
226     printf("\n");
227 }
228 cek_tahun = 0;
229 }
230 void menu_delete(){

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231     clear_data();
232     printf("\n");
233     printf("%sdi tahun   : ", biru);
234     scanf("%d", &del_tahun);
235     printf("%sdi bulan   : ", biru);
236     scanf("%s", del_bulan);
237     printf("%sdi tanggal : ", biru);
238     scanf("%d", &del_tggl);
239     printf("%sagenda apa : ", biru);
240     scanf("%s", del_agenda);
241 }
242 void hapus_agenda(){
243     int s, u, c;
244
245     fold = fopen("database.txt", "r");
246     fcek = fopen("database.txt", "r");
247     fnew = fopen("database.tmp", "w");
248
249     if(fold == NULL || fnew == NULL){
250         printf("\n\t| database maintenance");
251         return;
252     }
253
254     menu_delete();
255
256     s = 1, u = 0, c = 0;
257
258     while(s > 0){
259         s = fscanf(fold, "%s %s %s %s", set_tahun[u], set_bulan[u], set_hari[u],
set_agenda[u]);
260         u++;
261     }
262     fclose(fold);
263
264     s = u;
265
266     u = 0;
267     while(u < s - 1){
268         sprintf(char_hari, "%d", del_tggl);
269         sprintf(char_tahun, "%d", del_tahun);
270
271         if(strcmp(set_tahun[u], char_tahun) == 0 && strcmp(set_bulan[u], del_bulan)
== 0 && strcmp(set_hari[u], char_hari) == 0 && strcmp(set_agenda[u], del_agenda) ==
0){
272             c = 0;
273             break;
274         }else{
275             c++;
276         }
277         u++;
278     }
279
280     if(c > 0){
281         printf("\n\t| tahun, bulannya,\n\t| tanggal, agenda,\n\t| tidak ditemukan :
{\n");
282         menu_delete();
283     }
284
285     while(fscanf(fcek, "%d %s %d %s", &int_tahun, comp_bulan, &int_tggl, comp_agenda)
!= EOF){

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286         if(int_tahun == del_tahun && strcmp(comp_bulan, del_bulan) == 0 && int_tggl
== del_tggl && strcmp(comp_agenda, del_agenda) == 0){
287             continue;
288         }else{
289             fprintf(fnew, "%d %s %d %s\n", int_tahun, comp_bulan, int_tggl,
comp_agenda);
290         }
291     }
292
293     fclose(fnew);
294     fclose(fcek);
295     remove("database.txt");
296     rename("database.tmp", "database.txt");
297 }
298
299 int main(int argc, char* argv[]){
300     int menu;
301     ulang:
302
303     clear_data();
304     // system("cls");
305     system("color B");
306
307     fold = fopen("database.txt", "r");
308
309     printf("\n");
310     printf("masukan tahun: ");
311     scanf("%d", &tahun);
312
313     if(fold == NULL){
314         printf("\n\t| agendan kosong");
315     }else{
316         while(fscanf(fold, "%d %s %s %s", &int_tahun, set_bulan, set_hari,
set_agenda) != EOF){
317             if (tahun == int_tahun){
318                 cek_tahun ++;
319                 break;
320             }
321         }
322     }
323
324     fclose(fold);
325
326
327     tulis_kalender();
328
329     menu:
330     printf("\n\n\n%smenu :v ", biru);
331     printf("\n%s1. tulis agenda", biru);
332     printf("\n%s2. hapus agenda", biru);
333     printf("\n%s3. keluar\n", biru);
334     printf("\n%snomor | ", biru);
335     scanf("%d", &menu);
336
337     if(menu == 1){
338         printf("\n");
339         tulis_agenda();
340         goto ulang;
341     }if(menu == 2){
342         printf("\n");

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343     hapus_agenda();
344     goto ulang;
345 }if(menu == 3){
346     printf("\t| Anda Keluar \n");
347     exit(0);
348 }
349
350 return 0;
351 }
352
```