```
1 #include<stdio.h>
 2
   #include<math.h>
3
   int n1, n2, n3, n4, n5, n6;
 4
5
   void main()
6
         system( "cls");
         system( "COLOR F0");
7
8
9
            mainpage();
10
            printf("\n\n\n\n");
11
            printf("\t\t\t\t\t\t\t\t\t1.Standard Calculator\n");
12
            printf("\t\t\t\t\t\t\t\t\t2.Scientific Calculator\n");
13
            printf("\t\t\t\t\t\t\t\t\t\3.Base Calculator\n");
14
15
            printf("\t\t\t\t\t\t\t\t\t4.Matrix Calculator\n");
16
            printf("\t\t\t\t\t\t\t\t\t.Trigonometric Calculator\n");
17
            printf("\t\t\t\t\t\t\t\t\t6.Unit Converter");
18
            printf("\n\n\t\t\t\t\t\t\t\tEnter Your Selection : ");
19
            scanf("%d",&n1);
20
21
          if(n1==1)
22
              Standard_Calculator();
23
              if(n2==1)
24
              {Addition();}
25
              else if(n2==2)
26
27
              {Subtraction();}
28
              else if(n2==3)
29
              {Multiplication();}
30
            else if(n2==4)
            {Devision();}
31
            else
32
33
            {main();}
34
35
36
          else if(n1==2)
37
            Scientific_Calculator();
38
39
             if(n2==1)
40
             {Average();}
41
             else if(n2==2)
42
             {Logarithm();}
43
             else if(n2==3)
44
             {Power();}
45
             else if(n2==4)
46
             {Factorial_Number();}
47
             else if(n2==5)
48
             {Root();
49
             if(n4==1)
50
                 {Square_root();}
51
                else if(n4==2)
52
                 {Cubic_root();}
53
                else
54
                 {main();}
55
56
             else
             {main();}
57
58
59
        else if(n1==3)
60
              Base_Calculator();
61
62
              if(n2==1)
63
              { deci();
64
               if(n4==1)
65
                  {deci_bina();}
66
                  else if(n4==2)
```

```
67
                    {desi_octa();}
                   else if(n4==3)
 68
                    {deci_hexa();}
 69
 70
                    else
                    {main();}
 71
 72
                  else if(n2==2)
 73
                  { bina();
 74
                    if(n4==1)
 75
                    {bina_deci();}
 76
                   else if(n4==2)
 77
 78
                    {bina_octa();}
                  /* else if(n4==3)
 79
                    {bina_hexa();}*/
 80
 81
                    else
 82
                      {main();}
 83
                  else if(n2==3)
 84
 85
 86
                      octa();
 87
                      if(n4==1)
 88
                      {octa_deci();}
 89
                     else if(n4==2)
 90
                      {octa_bina();}
 91
                    /* else if(n4==1)
 92
                      {octa_hexa();} */
 93
                      else
 94
                          {main();}
                  }
 95
 96
                  else
 97
                      {main();}
                 /* else if(n2==4)
 98
 99
100
                      hexa();
101
                  } * /
102
     }
103
104
           else if(n1==4)
105
106
               Matrix_Calculator();
107
                  if(n2==1)
                  {Matrix_Addition();}
108
109
                  else if(n2==2)
110
                  {Matrix_Subtraction();}
111
                   else if(n2==3)
112
                  {Matrix_Multiplication();}
113
                   else if(n2==4)
114
                  {alldetermine();
115
                  if(n4==1)
116
                      {Determine2();}
117
                  else if(n4==2)
118
                      {Determine3();}
119
                      else{main();} }
120
121
                   else
                  {main();}
122
123
124
125
126
           else if(n1==5)
127
128
             Trigonometric_Calculator();
129
                  if(n2==1)
130
                  { all_Trigonometric();
131
                     if(n4==1)
132
                     {f_sin();}
```

```
else if(n4==2)
133
134
                    {f_cos();}
135
                    else if(n4==3)
136
                    {f_tan();}
137
                    else
138
                    {main();}
139
                else if(n2==2)
140
141
                { all_inverse_Trigonometric();
                if(n4==1)
142
143
                 {Sin_inverse();}
144
                 else if(n4==2)
145
                 {Cos_inverse();}
146
                 else if(n4==3)
147
                 {Tan_inverse();}
148
149
                else
150
                {main();}
151
152
           else
153
                {main();}
154
155
           else if(n1==6)
156
               Unit_Converter();
157
158
             if(n2==1)
159
                 {distance();
160
                    if(n4==1 \&\& n5==2)
161
                     {mm_cm();}
162
                    else if(n4==2 \&\& n5==1)
                     {cm_mm();}
163
                     else if(n4==1 \&\& n5==3)
164
165
                     {mm_m();}
166
                     else if(n4==3 \&\& n5==1)
167
                     {m_mm();}
168
                     else if(n4==1 \&\& n5==4)
169
                      {mm_km();}
170
                     else if(n4==4 \&\& n5==1)
171
                      {km_mm();}
172
                     else if(n4==2 \&\& n5==3)
173
                      {cm_m();}
174
                     else if(n4==3 \&\& n5==2)
175
                      {m_cm();}
176
                     else if(n4==2 \&\& n5==4)
177
                      {cm_km();}
178
                     else if(n4==4 \&\& n5==2)
179
                      {km_cm();}
                     else if(n4==2 \&\& n5==5)
180
181
                      {cm_mile();}
                     else if(n4==5 \&\& n5==2)
182
183
                      {mile_cm();}
184
                     else if(n4==3 \&\& n5==4)
185
                      {m_km();}
186
                     else if(n4==4 \&\& n5==3)
                      \{km_m();\}
187
188
                     else if(n4==3 \&\& n5==5)
189
                      {m_mile();}
190
                     else if(n4==5 \&\& n5==3)
191
                      {mile_m();}
192
                     else if(n4==4 \&\& n5==5)
193
                      {km_mile();}
194
                     else if(n4==5 \&\& n5==4)
195
                     {mile_km();}
196
                     else
197
                          {printf("\n\t\t\t\t\t\t\t\)};
198
                           scanf("%s",&n6);
```

```
199
                          if(n6=='Y'&&'y')
200
                              {main();}
201
                             else
202
                                  {distance();}
203
204
205
                 else if(n2==2)
206
                 { mass();
207
                                      if(n4==1 \&\& n5==2)
208
                                      {mg_g();}
209
                                      else if(n4==2 && n5==1)
210
                                      {g_mg(); }
211
                                      else if(n4==1 \&\& n5==3)
212
                                      {mg_kg(); }
213
                                      else if(n4==3 \&\& n5==1)
214
                                      {kg_mg(); }
215
                                      else if(n4==1 \&\& n5==4)
216
                                      {mg_MT(); }
217
                                      else if(n4==4 \&\& n5==1)
218
                                      {MT_mg(); }
219
                                      else if(n4==2 \&\& n5==3)
220
                                      {g_kg(); }
221
                                      else if(n4==3 \&\& n5==2)
222
                                      {kg_g(); }
223
                                      else if(n4==2 \&\& n5==4)
224
                                      {g_MT(); }
225
                                      else if(n4==4 \&\& n5==2)
226
                                      {MT_g(); }
227
                                      else if(n4==3 \&\& n5==4)
228
                                      {kg_MT(); }
229
                                      else if(n4==4 \&\& n5==3)
230
                                      {MT_kg(); }
231
                                      else
                         232
233
                          scanf("%s",&n6);
234
                          if(n6=='Y'&&'y')
235
                              {main();}
236
                              else
                                  {mass();}
237
238
239
240
                         }
241
242
243
244
                 else if(n2==3)
245
                 { volume();
246
                                      if(n4==1 \&\& n5==2)
247
                                      {ml_l();}
248
                                      else if(n4==2 \&\& n5==1)
                                      {1_ml(); }
249
250
                                      else if(n4==1 \&\& n5==3)
                                      {ml_dm3(); }
251
252
                                      else if(n4==3 \&\& n5==1)
                                      {dm3_ml(); }
253
254
                                      else if(n4==1 \&\& n5==4)
                                      {ml_cm3(); }
255
                                      else if(n4==4 \&\& n5==1)
256
257
                                      {cm3_ml(); }
258
                                      else if(n4==1 \&\& n5==5)
259
                                      {ml_m3(); }
260
                                      else if(n4==5 \&\& n5==1)
261
                                      {m3_ml();}
262
                                      else if(n4==2 \&\& n5==3)
263
                                      {1_dm3(); }
264
                                      else if(n4==3 \& \& n5==2)
```

```
{dm3_1(); }
265
                                      else if(n4==2 \&\& n5==4)
266
267
                                      {1_cm3(); }
268
                                      else if(n4==4 \&\& n5==2)
269
                                      {cm3_1(); }
270
                                      else if(n4==2 \&\& n5==5)
271
                                      {1_m3();}
272
                                      else if(n4==5 \& n5==2)
                                      {m3_1(); }
273
274
                                      else if(n4==3 \& n5==4)
275
                                      {dm3_cm3(); }
276
                                      else if(n4==4 \&\& n5==3)
277
                                      {cm3_dm3(); }
278
                                      else if(n4==3 \&\& n5==5)
279
                                      {dm3_m3();}
280
                                      else if(n4==5 \&\& n5==3)
281
                                      {m3_dm3();}
282
                                      else if(n4==4 \&\& n5==5)
283
                                      {cm3_m3();}
284
                                      else if(n4==5 \&\& n5==4)
285
                                      {m3_cm3();}
286
                                      else
287
                         scanf("%s",&n6);
288
                          if(n6=='Y'&&'y')
289
290
                              {main();}
291
                             else
292
                                  {volume();}
293
294
295
                         }
296
297
298
                 }
                             else if(n2==4)
299
                 { area();
300
301
                                      if(n4==1 \&\& n5==2)
302
                                      {mm2_dm2();}
303
                                      else if(n4==2 \&\& n5==1)
                                      {dm2_mm2(); }
304
                                      else if(n4==1 \&\& n5==3)
305
                                      {mm2_cm2(); }
306
307
                                      else if(n4==3 \&\& n5==1)
308
                                      {cm2_mm2(); }
309
                                      else if(n4==1 \&\& n5==4)
310
                                      {mm2_m2(); }
311
                                      else if(n4==4 \&\& n5==1)
                                      {m2_mm2(); }
312
313
                                      else if(n4==1 \&\& n5==5)
314
                                      {mm2_km2(); }
                                      else if(n4==5 \&\& n5==1)
315
316
                                      {km2_mm2();}
317
                                      else if(n4==2 \&\& n5==3)
318
                                      {dm2_cm2(); }
                                      else if(n4==3 \&\& n5==2)
319
320
                                      {cm2_dm2(); }
321
                                      else if(n4==2 \&\& n5==4)
322
                                      {dm2_m2(); }
323
                                      else if(n4==4 \&\& n5==2)
324
                                      {m2_dm2(); }
                                      else if(n4==2 \&\& n5==5)
325
326
                                      {dm2_km2(); }
327
                                      else if(n4==5 \&\& n5==2)
328
                                      {km2_dm2(); }
329
                                      else if(n4==3 \& \& n5==4)
330
                                      {cm2_m2(); }
```

```
else if(n4==4 \&\& n5==3)
331
332
                              {m2_cm2(); }
333
                              else if(n4==3 \&\& n5==5)
                              {cm2_km2(); }
334
335
                              else if(n4==5 \&\& n5==3)
                              {km2_cm2(); }
336
337
                              else if(n4==4 \&\& n5==5)
                              {m2_km2(); }
338
                              else if(n4==5 \&\& n5==4)
339
                              {km2_m2(); }
340
341
                              else
                    342
343
                     scanf("%s",&n6);
344
                     if(n6=='Y'&&'y')
345
                       {main();}
346
                        else
347
                          {area();}
348
349
350
351
                    }
352
353
354
              else
355
             {main();}
356
357
358
359
        }
360 }
361
362
        void mainpage()
363
    printf("\n\n\n");
364
    printf("\t\t\t **** **** ****
365
     ***\n");
*****
366 printf("\t\t\t **** **** *****
****** ***\n");
     printf("\t\t\t **** **** ******
367
***
     *** ***\n");
     printf("\t\t\t **** **** ***
                                                            *****
368
***
     *** ***\n");
     printf("\t\t\t **** **** *** ***
                                                            *****
                                                                      ******
369
******* ***\n");
    printf("\t\t\t **** **** ***
                                                  *****
                                                                      *****
370
******* ***\n");
     printf("\t\t\t ******* ***
                                  *****
                                                   ****
                                                            *****
                                                                          **** *******
371
     *** *******\n");
***
                    ****** ***
     printf("\t\t\t
                                   **** ******
                                                    **
                                                            ******
372
     *** ********* );
***
373
374
     printf("\n\n\n\n");
    printf("\t\t\t *******
                                            ****** *** ****
                                                                                ******
375
******* ********\n");
    printf("\t\t\t\t*******
                                                                               ******
376
printf("\t\t\t\*****
377
     ***
                                *** ***
     printf("\t\t\t\****
378
     *** **** ***\n");
***
                          *******
                                                                       ******
     printf("\t\t\t\****
379
     *** ********\n");
***
     printf("\t\t\t\t\t
                          *******
                                            ****
                                                    **** **** ***
                                                                       ******
380
     *** *******\n");
***
                              ** ***** *** *** *** *** *** *** *** *** *** ***
381 printf("\t\t\t\t**********
                                                                                   ***
```

```
382 printf("\t\t\t ******* ***
                                       *** ******* ****** ****** ****** ***
                ****\n");
383
384
385
386
     }
387
388
            void Standard_Calculator()
389 {
390
                 system( "cls");
391
392
                 mainpage();
393
                 printf("\n\n\n\n");
394
                   printf("\t\t\t\t\t\t\t\tStandard Calculator\n\n");
395
                   printf("\t\t\t\t\t\t\t\t1.Addition\n");
396
                   printf("\t\t\t\t\t\t\t\t\t\t\t\);
397
                   printf("\t\t\t\t\t\t\t\t\t\3.Multiplication\n");
398
                   printf("\t\t\t\t\t\t\t\t.Devision\n");
399
                   printf("\t\t\t\t\t\t\t\t5.Back to Main Menu");
400
                   printf("\n\n\t\t\t\t\t\t\t\tEnter Your Selection : ");
401
                    scanf("%d",&n2);
402
403
404
405 void Addition()
406 {
407
          do{
408
                          system( "cls");
409
                          printf("1.Addition\n\n");
410
                          float z,t=0;
411
412
                          int x,y;
                          printf("How many Number you will add : ");
413
414
                          scanf("%d",&x);
415
416
                          if(x>=2)
417
418
                           for (y=0;y<x;y++)</pre>
419
420
                           printf("Enter Number : ");
421
                           scanf("%f",&z);
422
                           t=t+z;
423
424
                           printf("\nAnswer = %.2f",t);
425
426
427
                           else
428
429
                         printf("Please Enter minimum two Numbers");
430
431
                        printf("\n\n you want to continue ? (y/n)");
432
                        scanf("%s",&n3);
433
434 } while(n3=='y'&&'Y');
435
436 return main();
437
438
    }
439
440 void Subtraction()
441 {
442
         do{
443
        system( "cls");
444
        printf("2.Subtraction\n\n");
445
        float z,m;
446
       int x,y=1;
```

```
447
       printf("How many Number you will Subtraction : ");
448
        scanf("%d",&x);
         if(x>=2)
449
450
            printf("Enter Number : ");
451
              scanf("%f",&z);
452
453
              m=z;
454
          do
455
          {
             printf("Enter Number : ");
456
457
             scanf("%f",&z);
458
             m=m-z;
459
             y++;
460
461
              while(y<x);</pre>
462
              printf("\nAnswer = %.2f",m);
463
464
465
          else
466
467
                printf("Please Enter minimum two Numbers");
468
469
           printf("\n\nAre you want to continue ? (y/n)");
470
                       scanf("%s",&n3);
471
472
       }while(n3=='y'&&'Y');
473
        return main();
474
475 }
476
477 void Multiplication()
478
479 {
480
         do{
481
         system( "cls");
         printf("3.Multiplication\n\n");
482
483
        float z,m=1;
484 int x,y;
        printf("How many Number you will Multiply : ");
485
        scanf("%d",&x);
486
487
         if(x>=2)
488
489
          for(y=0;y<x;y++)
490
491
              printf("Enter Number : ");
              scanf("%f",&z);
492
493
494
              m=m*z;
495
496
              printf("\nAnswer = %.2f",m);
497
498
          else
499
500
                printf("Please Enter minimum two Numbers");
501
502
            printf("\n\nAre you want to continue ? (y/n)");
503
                       scanf("%s",&n3);
504
505
        }while(n3=='y'&&'Y');
506
        return main();
507
508 }
509
510 void Devision()
511 {
512
         do{
```

```
system( "cls");
513
514
         printf("4.Devision\n\n");
515
      float z,m;
516 int x,y=1;
       printf("How many Number you will Divide : ");
517
518
        scanf("%d",&x);
        if(x>=2)
519
520
521
           printf("Enter Number : ");
522
              scanf("%f",&z);
523
              m=z;
524
          do
525
          {
             printf("Enter Number : ");
526
527
             scanf("%f",&z);
528
             m=m/z;
529
             y++;
530
531
              while(y<x);</pre>
532
              printf("\nAnswer = %.2f",m);
533
534
535
          else
536
                printf("Please Enter minimum two Numbers");
537
538
            printf("\n\nAre you want to continue ? (y/n)");
539
                       scanf("%s",&n3);
540
541
542
       }while(n3=='y'&&'Y');
543
        return main();
544
545 }
546
              void Scientific_Calculator()
547 {
548
                  system("cls");
549
                  mainpage();
550
                  printf("\n\n\n\n");
551
                    printf("\t\t\t\t\t\t\t\t\t\t\t\t\t\t\);
552
                     printf("\t\t\t\t\t\t\t\t\t\t\t\.Average\n");
553
                    printf("\t\t\t\t\t\t\t\t\t\t2.Logarithm\n");
554
                    printf("\t\t\t\t\t\t\t\t\t\t\3.Power\n");
555
                    printf("\t\t\t\t\t\t\t\t\t\t.Factorial Number\n");
556
                    printf("\t\t\t\t\t\t\t\t\t5.Root\n");
557
                     printf("\t\t\t\t\t\t\t\t6.Back to Main Menu");
558
                     printf("\n\n\t\t\t\t\t\t\t\tEnter Your Selection : ");
559
                    scanf("%d",&n2);
560
561 }
562
563 void Average()
564 {
565
       do{
566
             system( "cls");
567
              printf("1.Average\n\n");
568
        int x;
569
        float a,n,t;
570
       x=0; t=0;
571
       printf("After you finish enter numbers you should enter (963)\n\n");
572
       printf("Enter Number : ");
573
            scanf("%f",&n);
574
         while(n!=963)
575
         \{ t=t+n;
576
            x=x+1;
577
            printf("Enter Number : ");
578
            scanf("%f",&n);
```

```
579
580
       }
581
582
        a=t/x;
        if(t==0)
583
584
          printf("\nYour average : %.2f",a=0);
585
586
587
        else
        {printf("\nYour average : %.2f",a);}
588
        printf("\n\n you want to continue ? (y/n)");
589
                       scanf("%s",&n3);
590
591
       }while(n3=='y'&&'Y');
592
593
        return main();
594
595
596
597 void Logarithm()
598 {
599
         do{
600
             system( "cls");
601
              printf("2.Logarithm\n\n");
602
      float x;
603
604
       printf("Enter number you want to find log10(x) : ");
605
        scanf("%f",&x);
606
       printf("\nlog10(%.2f) = %.2f",x,log10(x));
607
608
        printf("\n\nAre you want to continue ? (y/n)");
609
                       scanf("%s",&n3);
610
611
        }while(n3=='y'&&'Y');
612
        return main();
613
614 }
615
616 void Power()
617
618
        do{
                system( "cls");
619
                 printf("3.Power\n\n");
620
621
      int x,y,p;
       printf("Enter Base : ");
622
623
        scanf("%d",&x);
       printf("Enter power : ");
624
625
        scanf("%d",&y);
626
       p=pow(x,y);
627
       printf("\nAnswer is : %d",p);
628
629
       printf("\n\nAre you want to continue ? (y/n)");
                       scanf("%s",&n3);
630
    } while(n3=='y'&&'Y');
631
632
633 return main();
634 }
635
636 void Factorial_Number()
637
    {
638
        do{
639
                 system( "cls");
640
                  printf("4.Factorial Number\n\n");
641
                   printf("Maximum factorial Number 12!\n\n");
642
     /*int x,f,n;
643
       f=1;
644
       printf("Enter your number : ");
```

```
645
         scanf("%d",&n);
         for(x=0;x<n;n--)
646
647
            f=f*n;
648
649
        printf("\nfactorial :%d",f);*/
650
651
652
        int x,i,f=1;
653
       printf("Enter Number : ");
654
         scanf("%d",&x);
655
656
        for(i=1;x>=i;i++)
657
            f=f*i;
658
659
660
         printf("\n%d ! = %d",x,x);
661
662
663
         for(i=1;x>i;i++)
664
665
            printf("* %d",x-i);
666
667
        printf("= %d",f);
         printf("\n\nAre you want to continue ? (y/n)");
668
                        scanf("%s",&n3);
669
670 } while(n3=='y'&&'Y');
671
672 return main();
673
    }
674
675 void Root()
676
    {
          system("cls");
677
678
                   mainpage();
679
                    printf("\n\n\t\t\t\t\t\t\t\t\t5.Root\n\n");
680
681
                     printf("\t\t\t\t\t\t\t\t\t1.Square root\n");
682
                     printf("\t\t\t\t\t\t\t\t\t\t2.Cubic root\n");
683
                     printf("\t\t\t\t\t\t\t\t\t.3.Back to Main Menu");
684
                     printf("\n\n\t\t\t\t\t\t\t\t\tEnter Your Selection : ");
685
                    scanf("%d",&n4);
686
687
688
    void Square_root()
689
690
          float x,y;
691
          do{
692
                          system( "cls");
693
             printf("1.Square root\n\n");
694
         printf("Enter Number : ");
695
         scanf("%f",&x);
696
         y=sqrt(x);
697
         printf("\nAnswer is : %.3f\n",y);
698
699
         printf("\n\n you want to continue ? (y/n)");
                        scanf("%s",&n3);
700
701
702
       }while(n3=='y'&&'Y');
703
704 return main();
705
    }
706
707 void Cubic_root()
708 {
709
          float x,y;
710
          do{
```

```
711
                           system( "cls");
712
                 printf("2.Cubic root\n\n");
713
714
715
         printf("Enter Number : ");
716
         scanf("%f",&x);
717
         y=cbrt(x);
         printf("\nAnswer is : %.3f\n",y);
718
719
720
         printf("\n\n you want to continue ? (y/n)");
                        scanf("%s",&n3);
721
722
723
       }while(n3=='y'&&'Y');
724
725 return main();
726
    }
727
728
729 void Base_Calculator()
730
    {
731
           system( "cls");
732
           mainpage();
                   printf("\n\n\n\n");
733
734
                     printf("\t\t\t\t\t\t\t\t\t\t\3.Base Calculator\n\n");
735
                     printf("\t\t\t\t\t\t\t\t\t\t\t\t\t\t\.Decimal to .....\n");
736
                     printf("\t\t\t\t\t\t\t\t\t\t2.Binary to ....\n");
737
                     printf("\t\t\t\t\t\t\t\t\t\t3.Octal to ....\n");
                     // printf("\t\t\t\t\t\t\t\t\t\t4.Hexadecimal to ....\n");
738
739
                     printf("\t\t\t\t\t\t\t\t\t4.Back to Main Menu");
740
                      printf("\n\n\t\t\t\t\t\t\t\tEnter Your Selection : ");
741
                     scanf("%d",&n2);
742
743 }
744
745
    void deci()
746
         system( "cls");
747
748
           mainpage();
749
                   printf("\n\n\n");
750
                      printf("\t\t\t\t\t\t\t\t\t\t\t\t);
751
                      printf("\t\t\t\t\t\t\t\t\t\t\t\.Decimal to Binary\n");
752
                      printf("\t\t\t\t\t\t\t\t\t2.Decimal to Octal\n");
753
                      printf("\t\t\t\t\t\t\t\t\t\t\t\3.Decimal to Hexadecimal\n");
754
                     printf("\t\t\t\t\t\t\t\t\t4.Back to Main Menu");
755
                      printf("\n\n\t\t\t\t\t\t\t\tEnter Your Selection : ");
756
                     scanf("%d",&n4);
757
     void deci_bina()
758
759
     {
760
         do{
761
                           system( "cls");
762
                           printf("1.Decimal to Binary\n\n");
763
       long int num;
764
765
766
      printf("Enter the decimal number : ");
      scanf("%ld",&num);
767
768
769
     long int reminder[50],i=0,length=0;
770
771
     while(num>0)
772
       {
773
           reminder[i]=num%2;
774
           num=num/2;
775
           i++;
776
           length++;
```

```
777
778
779 printf("\nBinary number : ");
780 for(i=length-1;i>=0;i--)
781
       printf("%ld",reminder[i]);
782
783
      printf("\n\nAre you want to continue ? (y/n)");
784
785
                       scanf("%s",&n3);
786
787
       }while(n3=='y'&&'Y');
788
789 return main();
790
791
792
793 void desi_octa()
794
    {
795
          do{
796
                          system( "cls");
797
                          printf("2.Decimal to Octal\n\n");
798
         long int num;
799
800
801
    printf("Enter the decimal number : ");
802
     scanf("%ld",&num);
803
804
         long int reminder[50], i=0, length=0;
805
806 while(num>0)
807
          reminder[i]=num%8;
808
809
          num=num/8;
810
          i++;
811
          length++;
812
813
814 printf("\nOctal number : ");
    for(i=length-1;i>=0;i--)
815
816
        printf("%ld",reminder[i]);
817
818
819
820
       printf("\n you want to continue ? (y/n)");
821
                        scanf("%s",&n3);
822
823
       }while(n3=='y'&&'Y');
824
825
    return main();
826
     }
827
    void deci_hexa()
828
829
830
         do{
                          system( "cls");
831
                          printf("3.Decimal to Hexadecimal\n\n");
832
833
        long int num;
834
835
      printf("Enter the decimal number : ");
836
837
      scanf("%ld",&num);
838
      long int reminder[50],i=0,length=0;
839
840
841
    while(num>0)
842
     {
```

```
843
          reminder[i]=num%16;
844
           num=num/16;
845
           i++;
846
           length++;
847
848
849 printf("\nHexadecimal number : ");
850 for(i=length-1;i>=0;i--)
851
852
         switch(reminder[i])
853
854
           case 10:
              printf("A");
855
856
              break;
857
           case 11:
858
              printf("B");
859
               break;
860
           case 12:
861
              printf("C");
862
              break;
863
           case 13:
864
              printf("D");
865
              break;
           case 14:
866
              printf("E");
867
868
              break;
869
           case 15:
870
              printf("F");
871
              break;
872
           default :
873
              printf("%ld",reminder[i]);
874
875
       }
876
        printf("\n\nAre you want to continue ? (y/n)");
877
                        scanf("%s",&n3);
878
879
       }while(n3=='y'&&'Y');
880
881
    return main();
882
883
884
885
    void bina()
886
887
        system( "cls");
888
           mainpage();
889
                   printf("\n\n\n\n");
890
                     printf("\t\t\t\t\t\t\t\t\t2.Binary to ....\n\n");
891
                     printf("\t\t\t\t\t\t\t\t\t1.Binary to Decimal\n");
892
                     printf("\t\t\t\t\t\t\t\t\t2.Binary to Octal\n");
893
894
                    printf("\t\t\t\t\t\t\t\t\t3.Back to Main Menu");
895
                      printf("\n\n\t\t\t\t\t\t\t\tEnter Your Selection : ");
896
                    scanf("%d",&n4);
897
898
    void bina_deci()
899
900
    {
901
          do{
902
                          system( "cls");
903
                          printf("1.Binary to Decimal\n\n");
904
       long int num;
905
          printf("Enter the binary number : ");
906
907
          scanf("%ld", &num);
908
```

```
909
         long int decimal = 0, base = 1, reminder;
910
911
        while (num > 0)
912
913
            reminder = num% 10;
914
            decimal = decimal + (reminder* base);
915
            num= num/ 10 ;
916
            base = base * 2;
917
918
       printf("\nDecimal Number :%ld ", decimal);
919
       printf("\n\nAre you want to continue ? (y/n)");
920
                      scanf("%s",&n3);
921
922
     }while(n3=='y'&&'Y');
923
924
925 return main();
926
927
928 }
929
930 void bina_octa()
931 {
932
        do{
933
                         system( "cls");
934
                         printf("2.Binary to Octal\n\n");
935
       long int num;
936
       printf("Enter the binary number :");
937
938
        scanf("%ld", &num);
939 long int binary, decimal = 0,octal[50], base = 1, reminder,i,q;
       while (num > 0)
940
941
942
            reminder = num% 10;
943
            decimal = decimal + (reminder * base);
            num= num/ 10;
944
945
            base = base * 2;
946
947
        long int m=decimal;
        i=1;
948
949
        while(m>0)
950
951
            octal[i]=m%8;
952
            m=m/8;
953
            i++;
954
       printf("\nOctal number :",octal);
955
956
        for(q=i-1;q>0;q--)
957
958
        printf("%ld",octal[q]);
959
960
        printf("\n\nAre you want to continue ? (y/n)");
                       scanf("%s",&n3);
961
962
      }while(n3=='y'&&'Y');
963
964
965 return main();
    }
966
967
968 void bina_hexa()
969 {
970
971 }
972
973 void octa()
974 {
```

```
975
         system( "cls");
 976
             mainpage();
                   printf("\n\n\n\n");
 977
 978
                     printf("\t\t\t\t\t\t\t\t\t\t\t\3.0ctal to ....\n\n");
 979
                      printf("\t\t\t\t\t\t\t\t\t\t\t\t\t\.Octal to Decimal\n");
 980
                      printf("\t\t\t\t\t\t\t\t\t2.Octal to Binary\n");
                     // printf("\t\t\t\t\t\t\t\t3.Octal to Hexadecimal\n");
 981
 982
                     printf("\t\t\t\t\t\t\t\t\t\t);
 983
                       printf("\n\n\t\t\t\t\t\t\t\tEnter Your Selection : ");
 984
                     scanf("%d",&n4);
 985
     }
 986
 987 void octa_deci()
 988
     {
 989
           do{
 990
                           system( "cls");
 991
                           printf("1.Octal to Decimal\n\n");
 992
          long int num;
 993
 994
          printf("Enter the octal number : ");
 995
           scanf("%ld", &num);
 996
 997
          long int decimal = 0, base = 1, reminder;
 998
999
          while (num > 0)
1000
1001
              reminder = num% 10;
1002
             decimal = decimal + (reminder* base);
1003
              num= num/ 10 ;
1004
              base = base * 8;
1005
          printf("\nDecimal Number :%ld ", decimal);
1006
1007
1008
          printf("\n\n you want to continue ? (y/n)");
1009
                         scanf("%s",&n3);
1010
1011
        }while(n3=='y'&&'Y');
1012
1013 return main();
1014
1015
1016
1017
     void octa_bina()
1018
1019
           do{
1020
                           system( "cls");
1021
                           printf("2.Octal to Binary\n\n");
1022
           long int num;
1023
1024
        printf("Enter the octal number : ");
1025
        scanf("%ld",&num);
1026
1027
        long int octal,binary[50],decimal = 0, base = 1, reminder,m,i,y;
1028
1029
          while (num > 0)
1030
1031
              reminder = num% 10;
1032
              decimal = decimal + (reminder* base);
1033
              num= num/ 10 ;
1034
              base = base * 8;
1035
          }
1036
1037
1038
              int m=decimal;
1039
              i=1;
1040
              while(m>0)
```

```
1041
1042
1043
               binary[i]=m%2;
1044
               m=m/2;
1045
               i++;
1046
1047
          printf("\nBinary number : ",octal);
1048
1049
          for(y=i-1;y>0;y--)
1050
1051
          printf("%d",binary[y]);
1052
1053
1054
           printf("\n you want to continue ? (y/n)");
1055
                         scanf("%s",&n3);
1056
1057
       }while(n3=='y'&&'Y');
1058
1059 return main();
1060
1061
1062
1063 void octa_hexa()
1064
1065
1066
1067
1068 void hexa()
1069
1070
         system( "cls");
             mainpage();
1071
                    printf("\n\n\n\n");
1072
                      1073
1074
                      printf("\t\t\t\t\t\t\t\t\t\t\t\t\t\.Hexadecimal to Decimal\n");
1075
                      printf("\t\t\t\t\t\t\t\t\t\t\t2.Hexadecimal to Binary\n");
1076
                      printf("\t\t\t\t\t\t\t\t\t\t3.Hexadecimal to Octal\n");
1077
                     printf("\t\t\t\t\t\t\t\t\t4.Back to Main Menu");
1078
                       printf("\n\n\t\t\t\t\t\t\t\t\tEnter Your Selection : ");
1079
                     scanf("%d",&n4);
1080
1081
1082
                   void Matrix_Calculator()
1083
                system( "cls");
1084
1085
                 mainpage();
1086
                    printf("\n\n\n\n");
1087
                      printf("\t\t\t\t\t\t\t\t\t\4.Matrix Calculator\n\n");
                      printf("\t\t\t\t\t\t\t\t\t\.Addition\n");
1088
1089
                      printf("\t\t\t\t\t\t\t\t\t\t\t\t\.Subtraction\n");
1090
                      printf("\t\t\t\t\t\t\t\t\t\3.Multiplication\n");
1091
                      printf("\t\t\t\t\t\t\t\t\t4.Determine\n");
1092
1093
                      printf("\t\t\t\t\t\t\t\t5.Back to Main Menu");
1094
                      printf("\n\n\t\t\t\t\t\t\t\tEnter Your Selection : ");
                     scanf("%d",&n2);
1095
1096
1097
1098
1099
     void Matrix_Addition()
1100
1101
         int i, j, mat1[10][10], mat2[10][10], sum[10][10];
1102
         int row1, col1, row2, col2;
1103
          do{
1104
                           system( "cls");
1105
                  printf("1.Matrix Addition\n\n");
1106
```

```
1107
         printf("Enter the number of Rows of Matrix 1
1108
         scanf("%d",&row1);
1109
         printf("Enter the number of Columns of Matrix 1 : ");
1110
        scanf("%d",&col1);
1111
1112
        printf("\nEnter the number of Rows of Matrix 2
1113
        scanf("%d", &row2);
         printf("Enter the number of Columns of Matrix 2 : ");
1114
         scanf("%d", &col2);
1115
1116
1117
        if (row1 != row2 | | col1 != col2) {
1118
1119
           printf("\n Order of two matrices is not same ");
1120
1121
         else{ printf("\n");
1122
1123
         //Elements in Matrix 1
         for (i = 1; i <= row1; i++)</pre>
1124
1125
1126
            for (j = 1; j <= col1; j++)</pre>
1127
1128
               printf("Enter the Element a[%d][%d] : ", i, j);
1129
               scanf("%d", &mat1[i][j]);
1130
1131
         printf("\n");
1132
1133
         for (i = 1; i <= row2; i++)
1134
1135
1136
            for (j = 1; j <= col2; j++) {</pre>
               printf("Enter the Element b[%d][%d] : ", i, j);
1137
               scanf("%d", &mat2[i][j]);
1138
1139
1140
         }
1141
1142
1143
1144
1145
           for(i=1;i<=row1;++i)</pre>
1146
              for(j=1;j<=col1;++j)</pre>
1147
1148
                  sum[i][j]=mat1[i][j]+mat2[i][j];
1149
1150
1151
1152
1153
          printf("\nSum of two matrix is: \n\n");
1154
1155
          for(i=1;i<=row1;++i)</pre>
            { for(j=1;j<=col1;++j)
1156
1157
1158
1159
                  printf("%d ",sum[i][j]);
1160
1161
                  if(j==col1)
1162
                      printf("\n\n");
1163
1164
1165
1166
1167
1168
          printf("\n\n you want to continue ? (y/n)");
1169
                         scanf("%s",&n3);
1170
1171
        }while(n3=='y'&&'Y');
1172
```

```
1173 return main();
1174
1175
1176 void Matrix_Subtraction()
1177
1178
      int i, j, mat1[10][10], mat2[10][10], sum[10][10];
1179
        int row1, col1, row2, col2;
1180
1181
         do{
                           system( "cls");
1182
1183
                  printf("1.Matrix Subtraction\n\n");
1184
1185
        printf("Enter the number of Rows of Matrix 1
                                                        : ");
1186
        scanf("%d",&row1);
1187
        printf("Enter the number of Columns of Matrix 1 : ");
1188
        scanf("%d",&col1);
1189
1190
        printf("\nEnter the number of Rows of Matrix 2 : ");
1191
        scanf("%d", &row2);
1192
         printf("Enter the number of Columns of Matrix 2 : ");
1193
        scanf("%d", &col2);
1194
1195
1196
        if (row1 != row2 | col1 != col2) {
1197
1198
            printf("\n Order of two matrices is not same ");
1199
1200
1201
         else{ printf("\n");
1202
         for (i = 1; i <= row1; i++)</pre>
1203
1204
            for (j = 1; j <= col1; j++)</pre>
1205
1206
1207
               printf("Enter the Element a[%d][%d] : ", i, j);
1208
               scanf("%d", &mat1[i][j]);
1209
1210
         }
         printf("\n");
1211
1212
         //Elements in Matrix 2
         for (i = 1; i <= row2; i++)</pre>
1213
1214
1215
            for (j = 1; j <= col2; j++) {</pre>
1216
              printf("Enter the Element b[%d][%d] : ", i, j);
1217
               scanf("%d", &mat2[i][j]);
1218
1219
1220
1221
1222
1223
1224
           for(i=1;i<=row1;++i)</pre>
1225
              for(j=1;j<=col1;++j)</pre>
1226
                  sum[i][j]=mat1[i][j]-mat2[i][j];
1227
1228
1229
1230
1231
          // Displaying the result
1232
          printf("\nSubtraction of two matrix is: \n\n");
1233
1234
          for(i=1;i<=row1;++i)</pre>
1235
             { for(j=1;j<=col1;++j)
1236
1237
1238
                  printf("%d ",sum[i][j]);
```

```
1239
1240
                  if(j==col1)
1241
                     printf("\n\n");
1242
1243
                  }
1244
            }
1245
1246
        printf("\n\nAre you want to continue ? (y/n)");
1247
1248
                        scanf("%s",&n3);
1249
1250
      }while(n3=='y'&&'Y');
1251
1252 return main();
1253 }
1254
1255 void Matrix_Multiplication()
1256 {
1257
     int row1, col1, row2,col2, i, j, k, sum = 0;
1258
      int first[10][10], second[10][10], multiply[10][10];
1259
1260
        do{
                           system( "cls");
1261
                  printf("3.Matrix Multiplication\n\n\n");
1262
1263
         printf("Enter the number of Rows of Matrix 1 : ");
1264
       scanf("%d",&row1);//m
1265
       printf("Enter the number of Columns of Matrix 1 : ");
1266
       scanf("%d",&col1);//n
1267
        printf("\n");
       printf("Enter the number of Rows of Matrix 2 : ");
1268
        scanf("%d",&row2);//p
1269
       printf("Enter the number of Columns of Matrix 2 : ");
1270
        scanf("%d",&col2);//q
1271
1272
1273
        if (col1 != row2) {
1274
           printf("\nMatrices with entered orders can't be multiplied with each other.\n");}
1275
           else{
1276
        printf("\nEnter the elements of first matrix\n\n");
1277
1278
        for (i = 1; i<= row1; i++)//c</pre>
1279
1280
            for (j = 1; j \le col1; j++)/d
1281
            { printf("Enter the Element a[%d][%d] : ", i, j);
1282
            scanf("%d", &first[i][j]);}
1283
1284
1285
       printf("\nEnter the elements of second matrix\n\n");
1286
1287
          for (i = 1; i <= row2; i++)</pre>
1288
          {
1289
             for (j = 1; j <= col2; j++)
1290
              {printf("Enter the Element a[%d][%d] : ", i, j);
1291
             scanf("%d", &second[i][j]); }
1292
1293
          for (i = 1; i <= row1; i++)</pre>
1294
1295
            for (j = 1; j <= col2; j++)</pre>
1296
1297
1298
              for (k = 1; k <= row2; k++) {
1299
               sum = sum + first[i][k]*second[k][j];
1300
1301
1302
             multiply[i][j] = sum;
1303
             sum = 0;
1304
```

```
1305
1306
1307
        printf("\n\nProduct of entered matrices :\n\n");
1308
1309
        for (i = 1; i <= row1; i++)
1310
           for (j = 1; j <= col2; j++)</pre>
1311
            printf("%d\t", multiply[i][j]);
1312
1313
           printf("\n");
1314
1315
        }
1316
1317
        printf("\n\n you want to continue ? (y/n)");
                        scanf("%s",&n3);
1318
1319
1320
      }while(n3=='y'&&'Y');
1321
1322 return main();
1323
1324
1325 void alldetermine()
1326 {
                   system( "cls");
1327
1328
                   mainpage();
                   printf("\n\n\n\n");
1329
1330
                     printf("\t\t\t\t\t\t\t\t\t\t.Determine of Matrix\n\n");
1331
                     printf("\t\t\t\t\t\t\t\t\t1.2x2\n");
1332
                     printf("\t\t\t\t\t\t\t\t\t\t\t\t\2.3x3\n");
1333
                     printf("\t\t\t\t\t\t\t\t\t3.Back to Main Menu");
1334
                      printf("\n\n\t\t\t\t\t\t\t\t\tEnter Your Selection : ");
1335
                     scanf("%d",&n4);
1336
1337
1338
1339 void Determine2()
1340 {
1341 int A[3][3];
      int row, col,i,j;
1342
1343
         long det;
1344
1345 do{
                           system( "cls");
1346
1347
                           printf("1.2x2\n\n");
1348
1349
          printf("\nEnter elements in matrix of size 2x2: \n\n");
1350
          for(i=1; i<=2; i++)</pre>
1351
             for(j=1; j<=2; j++)
1352
              { printf("Enter the Element A[%d][%d] : ", i, j);
1353
                 scanf("%d", &A[i][j]);
1354
1355
1356
        printf("\nThe matrix is\n");
1357
1358
        for(i=1;i<=2;i++){</pre>
          printf("\n");
1359
           for(j=1;j<=2;j++)
1360
               printf("%d\t",A[i][j]);
1361
       }
1362
1363
1364
          det = (A[1][1] * A[2][2]) - (A[1][2] * A[2][1]);
1365
1366
1367
         printf("\n\nDeterminant of matrix A = %ld", det);
1368
1369
          printf("\n you want to continue ? (y/n)");
1370
                         scanf("%s",&n3);
```

```
1371
1372
                       }while(n3=='y'&&'Y');
1373
1374 return main();
1375
1376
1377 void Determine3()
1378 {
1379 int a[4][4],i,j;
1380
1381
                      long determinant;
1382
1383
1384 do{
1385
                                                                               system( "cls");
1386
                                                                              printf("2.3x3\n\n");
1387
                      printf("Enter elements in matrix of size 3x3: \n\n");
1388
                     for(i=1;i<=3;i++)
1389
                              {
1390
                                           for(j=1;j<=3;j++)</pre>
1391
                                                {printf("Enter the Element A[%d][%d] : ", i, j);
1392
                                                 scanf("%d",&a[i][j]);}
1393
1394
                     printf("\nThe matrix is\n");
1395
1396
                     for(i=1;i<=3;i++){
                                 printf("\n");
1397
1398
                                 for(j=1;j<=3;j++)</pre>
1399
                                                printf("%d\t",a[i][j]);
1400
1401
                       \mathtt{determinant} = \mathtt{a[1][1]} * ((\mathtt{a[2][2]} * \mathtt{a[3][3]}) - (\mathtt{a[2][3]} * \mathtt{a[3][2]})) - \mathtt{a[1][2]} * (\mathtt{a[2][1]} * \mathtt{a[3][3]} - \mathtt{a[2][3]} * \mathtt{a[3][1]} + \mathtt{a[2][3]} * \mathtt{a[3][1]} + \mathtt{a[2][3]} * \mathtt{a[3][1]} + \mathtt{a[3][3]} + \mathtt{a[3
1402
]) + a[1][3]*(a[2][1]*a[3][2] - a[2][2]*a[3][1]);
1403
1404
                       printf("\n\nDeterminant of 3X3 matrix: %1d",determinant);
1405
1406
                       printf("\n\n you want to continue ? (y/n)");
1407
                                                                         scanf("%s",&n3);
1408
1409
                       }while(n3=='y'&&'Y');
1410
1411 return main();
1412
1413
1414 void Inverse()
1415
1416
1417
1418
1419
1420
                                                    void Trigonometric_Calculator()
1421
1422
                             system( "cls");
1423
                              mainpage();
1424
                                                          printf("\n\n\n\n");
                                                                printf("\t\t\t\t\t\t\t\t\t.Trigonometric Calculator\n\n");
1425
1426
                                                                1427
                                                                1428
                                                                printf("\t\t\t\t\t\t\t\t\t3.Back to Main Menu");
1429
                                                                 printf("\n\n\t\t\t\t\t\t\t\t\tEnter Your Selection : ");
1430
                                                             scanf("%d",&n2);
1431
1432 }
1433 void all_Trigonometric()
1434
               {
1435
                             system( "cls");
```

```
1436
          mainpage();
                   printf("\n\n\n\n");
1437
1438
                     printf("\t\t\t\t\t\t\t\t\t\t\t\t), Sin(x)/Cos(x)/Tan(x)\n\n");
1439
                     printf("\t\t\t\t\t\t\t\t.Sin(x)\n");
1440
                     printf("\t\t\t\t\t\t\t\t\t);
1441
                     printf("\t\t\t\t\t\t\t\t\t);
1442
                     printf("\t\t\t\t\t\t\t\t\t\t\t\t);
                      printf("\n\n\t\t\t\t\t\t\t\tEnter Your Selection : ");
1443
                    scanf("%d",&n4);
1444
1445 }
1446 void f_sin()
1447 {
1448
          do{
1449
                  system( "cls");
1450
                  printf("1.Sin(x)\n\n");
1451
     float x,y,z,a;
1452
1453
        printf("Enter angle : ");
1454
        scanf("%f",&x);
1455
        a=22/7;
1456
        a=a/180;
1457
        z=x*a;
1458
        y=sin(z);
        printf("\nsin(%.2f) = %.2f",x,y);
1459
        printf("\n%.2f degree = %.2f radian",x,z);
1460
1461
             printf("\n\nAre you want to continue ? (y/n)");
1462
1463
                        scanf("%s",&n3);
1464 } while(n3=='y'&&'Y');
1465
1466 return main();
1467
     }
1468
1469 void f_cos()
1470
1471
         do{
1472
                  system( "cls");
1473
                   printf("2.Cos(x)\n\n");
1474
           float x,y,z,a;
1475
1476
         printf("Enter angle : ");
1477
         scanf("%f",&x);
1478
         a=22/7;
1479
         a=a/180;
1480
         z=x*a;
1481
         y=cos(z);
1482
         printf("\setminus ncos(%.2f) = %.2f",x,y);
1483
         printf("\n%.2f degree = %.2f radian",x,z);
1484
1485
1486
             printf("\n\nAre you want to continue ? (y/n)");
                        scanf("%s",&n3);
1487
     } while(n3=='y'&&'Y');
1488
1489
1490 return main();
1491
1492 }
1493
1494 void f_tan()
1495 {
1496
         do{
1497
                  system( "cls");
1498
                    printf("3.Tan(x)\n\n");
1499
         float x,y,z,a;
1500
1501
         printf("Enter angle : ");
```

```
1502
         scanf("%f",&x);
1503
          a=22/7;
1504
         a=a/180;
1505
         z=x*a;
        y=tan(z);
1506
        printf("\ntan(%.2f) = %.2f",x,y);
1507
1508
         printf("\n%.2f degree = %.2f radian",x,z);
1509
1510
           printf("\n\n you want to continue ? (y/n)");
1511
                         scanf("%s",&n3);
1512 } while(n3=='y'&&'Y');
1513
1514 return main();
1515
1516 }
1517
1518 void all_inverse_Trigonometric()
1519 {
1520
          system( "cls");
1521
          mainpage();
1522
                    printf("\n\n\n\n");
1523
                      printf("t\t\t\t\t\t\t\t\t\t\2.Sin(x)/Cos(x)/Tan(x) inverse\n\n");
1524
                      printf("\t\t\t\t\t\t\t\t\t1.Sin(x) inverse\n");
1525
                      printf("\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\);
1526
                      printf("\t\t\t\t\t\t\t\t\t\t\3.Tan(x) inverse\n");
1527
                      printf("\t\t\t\t\t\t\t\t\t4.Back");
1528
                       printf("\n\n\t\t\t\t\t\t\t\t\tEnter Your Selection : ");
1529
                      scanf("%d",&n4);
1530
1531
1532 void Sin_inverse()
1533 {
1534
           do{
1535
                   system( "cls");
1536
                   printf("1.Sin(x) inverse\n\n");
1537
1538
          float x,y,z,a;
1539
          printf("-1 <= sin(x) <= 1 \setminus n \setminus n");
          printf("Enter sin inverse value : ");
1540
1541
          scanf("%f",&x);
1542
          y=asin( x );
1543
          a=180*7;
1544
          a = a/22;
1545
          z=y*a;
1546
1547
          printf("\nsin inverse(%.2f) = %.2f degree",x,ceil(z));
1548
          printf("\n%.2f degree = %.2f radian",z,y);
1549
1550
          printf("\n\nAre you want to continue ? (y/n)");
                         scanf("%s",&n3);
1551
1552 } while(n3=='y'&&'Y');
1553
1554 return main();
1555
1556 }
1557
1558 void Cos_inverse()
1559 {
1560
          do{
1561
                   system( "cls");
1562
                   printf("1.Cos(x) inverse\n\n");
1563
          float x,y,z,a;
1564
        printf("-1 <= cos(x) <= 1 \setminus n \setminus n");
1565
        printf("Enter cos inverse value : ");
1566
          scanf("%f",&x);
1567
         y=acos(x);
```

```
a=180*7;
1568
1569
          a = a/22i
1570
          z=y*a;
1571
        printf("\ncos inverse(%.2f) = %.2f degree",x,ceil(z));
1572
1573
        printf("\n%.2f degree = %.2f radian",z,y);
1574
1575
          printf("\n you want to continue ? (y/n)");
1576
                         scanf("%s",&n3);
1577
     } while(n3=='y'&&'Y');
1578
1579 return main();
1580
1581
1582
1583
1584 void Tan_inverse()
1585 {
1586
          do{
1587
                   system( "cls");
1588
                    printf("1.Tan(x) inverse\n\n");
1589
           float x,y,z,a;
1590
        printf("Enter tan inverse value: ");
1591
         scanf("%f",&x);
1592
1593
         y=atan(x);
1594
         a=180*7;
1595
         a = a/22;
1596
         z=y*a;
1597
        printf("\ntan inverse(%.2f) = %.2f degree",x,ceil(z));
1598
         printf("\n%.2f degree = %.2f radian",z,y);
1599
1600
1601
           printf("\n\n you want to continue ? (y/n)");
1602
                         scanf("%s",&n3);
1603 } while(n3=='y'&&'Y');
1604
1605 return main();
1606
1607
1608
1609
                  void Unit_Converter()
1610
1611
                system( "cls");
1612
                 mainpage();
1613
                   printf("\n\n\n\n");
1614
                      printf("\t\t\t\t\t\t\t\t\t\t\t\f\.Unit Converter\n\n");
1615
                      printf("\t\t\t\t\t\t\t\t\t\t\t\t\.Distance\n");
1616
                      printf("\t\t\t\t\t\t\t\t\t\t\t\t\t\t\);
1617
                      printf("\t\t\t\t\t\t\t\t\t3.Volume\n");
1618
                      printf("\t\t\t\t\t\t\t\t\t4.Area\n");
1619
                      printf("\t\t\t\t\t\t\t\t\t5.Back");
1620
                      printf("\n\n\t\t\t\t\t\t\tEnter Your Selection : ");
1621
                     scanf("%d",&n2);
1622
1623
1624 void distance()
1625 {
1626
          system( "cls");
1627
                 mainpage();
1628
                    printf("\n\n\n\n");
1629
                      printf("\t\t\t\t\t\t\t\t\t\t\t\.Distance\n\n");
1630
                      printf("\t\t\t\t\t\t\t\t\t\t1.mm\n");
1631
                      printf("\t\t\t\t\t\t\t\t\t\t\t\t;);
1632
                      printf("\t\t\t\t\t\t\t\t\t\t\3.m\n");
1633
                      printf("\t\t\t\t\t\t\t\t\t\t4.km\n");
```

```
printf("\t\t\t\t\t\t\t\t5.mile\n");
1634
1635
1636
                      printf("\n\n\t\t\t\t\t\t\t\tEnter Your First Selection : ");
1637
                      scanf("%d",&n4);
1638
                      printf("\n\t\t\t\t\t\t\t\t\tEnter Your Second Selection : ");
1639
                     scanf("%d",&n5);
1640
1641
1642 void mm_cm()
1643 {
1644
          do{
1645
1646
                   system( "cls");
1647
          printf("mm to cm\n\n");
1648
       float mm, cm;
1649
        printf("Enter the distance in millimeters : ");
1650
        scanf("%f",&mm);
1651
1652
              cm = mm /10;
1653
        printf("%.2f mm = %.2f cm\n\n",mm,cm);
1654
1655
        printf("\n\nAre you want to continue ? (y/n)");
                        scanf("%s",&n3);
1656
1657 } while(n3=='y'&&'Y');
1658
1659 return main();
1660
1661
1662 }
1663
1664 void cm_mm()
1665
1666
       do{
1667
                  system( "cls");
1668
                 printf("cm to mm\n\n");
1669
                  float mm, cm;
1670
          printf("Enter the distance in centimeters : ");
         scanf("%f",&cm);
1671
1672
               mm = cm *10;
1673
         printf("%.2f cm = %.2f mm\n\n",cm,mm);
1674
1675
                 printf("\n\n you want to continue ? (y/n)");
1676
                         scanf("%s",&n3);
1677
      } while(n3=='y'&&'Y');
1678
1679 return main();
1680
1681
1682
     void mm_m()
1683
1684
1685
       do{
1686
                  system( "cls");
1687
                  printf("mm to m\n\n");
1688
                 float m, mm;
        printf("Enter the distance in millimeters : ");
1689
        scanf("%f",&mm);
1690
1691
              m = mm /1000;
1692
1693
          printf("%.2f mm = %.3f m\n\n", mm, m);
1694
1695
1696
                 printf("\n\n you want to continue ? (y/n)");
1697
                        scanf("%s",&n3);
1698 } while(n3=='y'&&'Y');
1699
```

```
1700 return main();
1701
1702
1703 void m_mm()
1704 {
1705
       do{
1706
                  system( "cls");
1707
                  printf("m to mm\n\n");
1708
                  float m, mm;
       printf("Enter the distance in meters : ");
1709
        scanf("%f",&m);
1710
1711
             mm = m *1000;
       printf("%.2f m = %.2f mm\n\n",m,mm);
1712
1713
                 printf("\n\n you want to continue ? (y/n)");
1714
1715
                      scanf("%s",&n3);
1716 } while(n3=='y'&&'Y');
1717
1718 return main();
1719
1720
1721 void mm_km()
1722 {
1723
       do{
1724
                 system( "cls");
1725
                 printf("mm to km\n\n");
1726
                 float mm, km;
       printf("Enter the distance in millimeters : ");
1727
        scanf("%f",&mm);
1728
1729
1730
              km = mm /1000000;
1731
        printf("%.2f mm = %f km\n\n",mm,km);
1732
1733
1734
                 printf("\n\n you want to continue ? (y/n)");
1735
                       scanf("%s",&n3);
1736 } while(n3=='y'&&'Y');
1737
1738 return main();
1739
     }
1740
1741 void km_mm()
1742
1743
       do{
1744
                  system( "cls");
1745
                  printf("km to mm\n\n");
1746
                  float mm, km;
       printf("Enter the distance in kilometers : ");
1747
        scanf("%f",&km);
1748
1749
              mm = km *1000000;
1750
       printf("%.2f km = %.2f mm\n\n",km,mm);
1751
1752
1753
                 printf("\n\n you want to continue ? (y/n)");
                       scanf("%s",&n3);
1754
1755 } while(n3=='y'&&'Y');
1756
1757 return main();
1758
     }
1759
1760 void cm_m()
1761 {
1762
       do{
1763
                  system( "cls");
1764
                 printf("cm to m\n\n");
1765
                 float m, cm;
```

```
1766
        printf("Enter the distance in centimeters : ");
1767
         scanf("%f",&cm);
1768
1769
              m = cm /100;
        printf("%.2f cm = %.2f m\n\n",cm,m);
1770
1771
1772
                 printf("\n\n you want to continue ? (y/n)");
1773
                        scanf("%s",&n3);
1774 } while(n3=='y'&&'Y');
1775
1776 return main();
1777
     }
1778
1779 void m_cm()
1780 {
1781
        do{
1782
                  system( "cls");
1783
                  printf("m to cm\n\n");
1784
                  float cm, m;
1785
       printf("Enter the distance in meters : ");
1786
        scanf("%f",&m);
1787
             cm = m *100;
1788
        printf("%.2f m = %.2f cm\n\n",m,cm);
1789
1790
                 printf("\n you want to continue ? (y/n)");
1791
                        scanf("%s",&n3);
1792 } while(n3=='y'&&'Y');
1793
1794 return main();
1795 }
1796
1797 void cm_km()
1798
1799
        do{
1800
                  system( "cls");
1801
                  printf("cm to km\n\n");
1802
                  float cm, km;
1803
         printf("Enter the distance in centimeter: ");
1804
         scanf("%f", &cm);
1805
         km = cm/100000;
1806
1807
1808
         printf("%.2f cm = %.5f km\n\n",cm,km);
1809
1810
1811
                 printf("\n\n you want to continue ? (y/n)");
1812
                        scanf("%s",&n3);
1813 } while(n3=='y'&&'Y');
1814
1815 return main();
1816
1817
1818 void km_cm()
1819 {
1820
         do{
1821
                  system( "cls");
1822
                  printf("km to cm\n\n");
1823
                  float cm,km;
1824
        printf("Enter length in kilometer: ");
1825
         scanf("%f", &km);
1826
                 = km * 100000;
1827
            cm
1828
             printf("%.2f km = %.2f cm\n\n",km, cm);
1829
1830
                 printf("\n\n you want to continue ? (y/n)");
1831
                        scanf("%s",&n3);
```

```
1832 } while(n3=='y'&&'Y');
1833
1834 return main();
1835
1836
1837 void cm_mile()
1838 {
1839
         do{
1840
                  system( "cls");
1841
                  printf("cm to miles\n\n");
1842
                  float m, cm;
1843
       printf("Enter the distance in centimeters : ");
        scanf("%f",&cm);
1844
             m = cm / 160934;
1845
1846
        printf("%.2f cm = %f miles\n\n",cm,m);
1847
1848
                 printf("\n\n you want to continue ? (y/n)");
1849
                       scanf("%s",&n3);
1850 } while(n3=='y'&&'Y');
1851
1852 return main();
1853 }
1854
1855 void mile_cm()
1856 {
1857
        do{
1858
                  system( "cls");
                  printf("miles to cm\n\n");
1859
1860
                  float m, cm;
        printf("Enter the distance in miles : ");
1861
1862
        scanf("%f",&m);
1863
1864
              cm = m * 160934;
1865
        printf("%f miles = %.2f cm\n\n",m,cm);
1866
1867
1868
                 printf("\n\n you want to continue ? (y/n)");
                        scanf("%s",&n3);
1869
1870 } while(n3=='y'&&'Y');
1871
1872 return main();
1873
     }
1874
1875 void m_km()
1876
1877
        do{
1878
                  system( "cls");
1879
                  printf("m to km\n\n");
1880
                  float km, m;
        printf("Enter the distance in meters : ");
1881
        scanf("%f",&m);
1882
1883
1884
              km = m/1000;
        printf("%.2f m = %.3f km\n\n", m, km);
1885
1886
1887
                 printf("\n\n you want to continue ? (y/n)");
                        scanf("%s",&n3);
1888
1889 } while(n3=='y'&&'Y');
1890
1891 return main();
1892 }
1893
1894 void km_m()
1895 {
1896
       do{
1897
                  system( "cls");
```

```
1898
                  printf("km to m\n\n");
1899
                  float km, m;
        printf("Enter the distance in kilometers : ");
1900
        scanf("%f",&km);
1901
1902
1903
              m = km * 1000;
        printf("%.2f km = %.2f m\n\n",km,m);
1904
1905
1906
                 printf("\n\n you want to continue ? (y/n)");
1907
                        scanf("%s",&n3);
1908 } while(n3=='y'&&'Y');
1909
1910 return main();
1911 }
1912
1913 void m_mile()
1914 {
1915
        do{
1916
                  system( "cls");
1917
                  printf("m to miles\n\n");
1918
                  float m, mi;
1919
       printf("Enter the distance in meters : ");
        scanf("%f",&m);
1920
              mi = m /1609.34;
1921
        printf("%.2f m = %.9f miles\n\n",m,mi);
1922
1923
1924
                 printf("\n you want to continue ? (y/n)");
1925
                       scanf("%s",&n3);
1926 } while(n3=='y'&&'Y');
1927
1928 return main();
1929 }
1930
1931 void mile_m()
1932 {
1933
       do{
1934
                  system( "cls");
1935
                  printf("miles to m\n\n");
1936
                  float m, mi;
         printf("Enter the distance in miles : ");
1937
         scanf("%f",&mi);
1938
1939
              m = mi *1609.34;
1940
1941
        printf("%.2f miles = %.2f m\n\n",mi,m);
1942
1943
                 printf("\n you want to continue ? (y/n)");
1944
                        scanf("%s",&n3);
1945 } while(n3=='y'&&'Y');
1946
1947 return main();
1948
1949
1950 void km_mile()
1951 {
1952
       do{
                  system( "cls");
1953
1954
                  printf("km to miles\n\n");
1955
                  float m, km;
1956
        printf("Enter the distance in kilometers : ");
1957
        scanf("%f",&km);
1958
1959
              m = km /1.60934;
        printf("%.2f km = %.2f miles\n\n",km,m);
1960
1961
1962
1963
                 printf("\n\n you want to continue ? (y/n)");
```

```
1964
                         scanf("%s",&n3);
1965
      } while(n3=='y'&&'Y');
1966
1967
     return main();
1968
1969
1970 void mile_km()
1971
1972
        do{
1973
                   system( "cls");
                   printf("m to km\n\n");
1974
1975
                   float m, km;
1976
          printf("Enter the distance in miles : ");
          scanf("%f",&m);
1977
1978
               km = m *1.60934;
1979
          printf("%.2f miles = %.2f km\n\n",m,km);
1980
1981
1982
1983
                  printf("\n you want to continue ? (y/n)");
1984
                         scanf("%s",&n3);
1985 } while(n3=='y'&&'Y');
1986
1987 return main();
1988
1989
1990 void mass()
1991
1992
         system( "cls");
1993
                 mainpage();
                    printf("\n\n\n\n");
1994
1995
                      printf("\t\t\t\t\t\t\t\t\t\t\t\t;\.Mass\n\n");
                      printf("\t\t\t\t\t\t\t\t\t\t1.mg\n");
1996
1997
                      printf("\t\t\t\t\t\t\t\t\t\t2.g\n");
1998
                      printf("\t\t\t\t\t\t\t\t\t\t3.kg\n");
1999
                      printf("\t\t\t\t\t\t\t\t\t4.MT\n");
2000
2001
                      printf("\n\n\t\t\t\t\t\t\tEnter Your First Selection : ");
2002
                      scanf("%d",&n4);
2003
                      printf("\n\t\t\t\t\t\t\t\tEnter Your Second Selection : ");
2004
                      scanf("%d",&n5);
2005
2006
2007
     void mg_g()
2008
2009
         do{
2010
                   system( "cls");
2011
                   printf("mg to g\n\n");
2012
                   float mg,g;
2013
          printf("Enter the mas in milligrams : ");
2014
          scanf("%f",&mg);
2015
          g = mg/1000;
2016
          printf("%.2f mg = %.3f g",mg,g);
2017
2018
                   printf("\n\n you want to continue ? (y/n)");
2019
                         scanf("%s",&n3);
2020
     } while(n3=='y'&&'Y');
2021
2022 return main();
2023
     }
2024
2025 void g_mg()
2026 {
2027
       do{
2028
                   system( "cls");
2029
                   printf("g to mg\n\n");
```

```
2030 float g,mg;
2031
        printf("Enter the mas in grams : ");
2032
         scanf("%f",&g);
2033
         mg = g*1000;
        printf("%.2f g = %.2f mg",g,mg);
2034
2035
2036
                  printf("\n\n you want to continue ? (y/n)");
2037
                        scanf("%s",&n3);
     } while(n3=='y'&&'Y');
2038
2039
2040 return main();
2041
     }
2042
2043 void mg_kg()
2044 {
2045
      do{
2046
                  system( "cls");
2047
                  printf("mg to kg\n\n");
2048
                  float kg,mg;
2049
        printf("Enter the mas in milligrams : ");
2050
         scanf("%f",&mg);
2051
        kg = mg/1000000;
2052
         printf("%.2f mg = %.6f kg\n\n",mg,kg);
2053
2054
2055
                  printf("\n you want to continue ? (y/n)");
2056
                        scanf("%s",&n3);
2057 } while(n3=='y'&&'Y');
2058
2059 return main();
2060
     }
2061
2062 void kg_mg()
2063
     {
2064
      do{
2065
                  system( "cls");
2066
                  printf("kg to mg\n\n");
2067
                  float kg,mg;
         printf("Enter the mas in kilograms : ");
2068
         scanf("%f",&kg);
2069
         mg = kg*1000000;
2070
         printf("%.2f kg = %.2f mg\n\n",kg,mg);
2071
2072
2073
2074
                  printf("\n you want to continue ? (y/n)");
2075
                        scanf("%s",&n3);
2076
     } while(n3=='y'&&'Y');
2077
2078
     return main();
2079
     }
2080
2081
     void mg_MT()
2082
2083
      do{
2084
                  system( "cls");
2085
                  printf("mg to MT\n');
2086
                  float mg,mt;
2087
         printf("Enter the mas in milligrams : ");
2088
         scanf("%f",&mg);
2089
2090
         mt = mg /1000000000;
2091
         printf("%.2f mg = %.9f MT",mg,mt);
2092
2093
2094
                  printf("\n\n you want to continue ? (y/n)");
2095
                        scanf("%s",&n3);
```

```
2096 } while(n3=='y'&&'Y');
2097
2098 return main();
2099
2100
2101 void MT_mg()
2102 {
2103
     do{
2104
                  system( "cls");
2105
                  printf("MT to mg\n\n");
2106
                  float mg,mt;
2107
       printf("Enter the mas in metric tones : ");
2108
2109
        scanf("%f",&mt);
       mg = mt *1000000000;
2110
       printf("%.2f MT = %.2f mg",mt,mg);
2111
2112
2113
2114
                  printf("\n you want to continue ? (y/n)");
2115
                       scanf("%s",&n3);
2116 } while(n3=='y'&&'Y');
2117
2118 return main();
2119
2120
2121 void g_kg()
2122 {
2123 do{
2124
                 system( "cls");
2125
                 printf("g to kg\n\n");
2126
                 float kg,g;
2127
       printf("Enter the mas in grams : ");
2128
        scanf("%f",&g);
2129
        kg = g/1000;
        printf("%.2f g = %.3f kg\n\n",g,kg);
2130
2131
2132
                  printf("\n you want to continue ? (y/n)");
                       scanf("%s",&n3);
2133
2134 } while(n3=='y'&&'Y');
2135
2136 return main();
2137
     }
2138
2139 void kg_g()
2140
2141
      do{
2142
                  system( "cls");
2143
                 printf("kg to g\n\n");
2144
                  float kg,g;
       printf("Enter the mas in kilograms : ");
2145
        scanf("%f",&kg);
2146
        g = kg*1000;
2147
        printf("%.2f kg = %.2f g",kg,g);
2148
2149
2150
                  printf("\n\n you want to continue ? (y/n)");
2151
                       scanf("%s",&n3);
2152
2153 } while(n3=='y'&&'Y');
2154
2155 return main();
2156 }
2157
2158 void g_MT()
2159 {
2160
      do{
2161
                  system( "cls");
```

```
2162
                  printf("g to MT\n\n");
2163
2164
                  float g, mt;
2165
        printf("Enter the mas in grams : ");
2166
2167
         scanf("%f",&g);
        mt = g /1000000;
2168
2169
        printf("%.2f g = %.6f mt",g,mt);
2170
                  printf("\n\n you want to continue ? (y/n)");
2171
2172
                        scanf("%s",&n3);
2173 } while(n3=='y'&&'Y');
2174
2175 return main();
2176
2177
2178 void MT_g()
2179 {
2180
      do{
2181
                  system( "cls");
2182
                  printf("MT to g\n\n");
2183
                  float g,mt;
2184
       printf("Enter the mas in metric tones : ");
2185
        scanf("%f",&mt);
        g = mt *1000000;
2186
        printf("%.2f mt = %.2f g",mt,g);
2187
2188
        printf("\n you want to continue ? (y/n)");
2189
                        scanf("%s",&n3);
2190
2191
2192 } while(n3=='y'&&'Y');
2193
2194 return main();
2195
     }
2196
2197 void kg_MT()
2198
2199
      do{
                  system( "cls");
2200
2201
                  printf("kg to MT\n\n");
2202
                  float kg,mt;
                  printf("Enter the mas in kilograms : ");
2203
2204
                  scanf("%f", &kg);
2205
                  mt = kg*1000;
                  printf("%.2f kg = %.2f mt\n\n",kg,mt);
2206
2207
2208
2209
                  printf("\n you want to continue ? (y/n)");
2210
                        scanf("%s",&n3);
2211 } while(n3=='y'&&'Y');
2212
2213 return main();
2214
2215
2216 void MT_kg()
2217 {
      do{
2218
2219
                  system( "cls");
2220
                  printf("MT to kg\n\n");
2221
                  float kg,mt;
2222
        printf("Enter the mas in Metric tones : ");
2223
         scanf("%f",&mt);
2224
        kg = mt*1000;
2225
         printf("%.2f mt = %.2f kg\n\n",mt,kg);
2226
2227
```

```
2228
                  printf("\n you want to continue ? (y/n)");
2229
                         scanf("%s",&n3);
2230
     } while(n3=='y'&&'Y');
2231
2232 return main();
2233 }
2234 void volume()
2235 {
2236
         system( "cls");
2237
                mainpage();
2238
                   printf("\n\n\n\n");
2239
                     printf("\t\t\t\t\t\t\t\t1.Volume\n\n");
2240
                      printf("\t\t\t\t\t\t\t\t\t1.ml\n");
2241
                      printf("\t\t\t\t\t\t\t\t\t\t\t\t\.1\n");
2242
                      printf("\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\t\n");
2243
                      printf("\t\t\t\t\t\t\t\t\t4.cubic cm\n");
2244
                      printf("\t\t\t\t\t\t\t\t\t.cubic m\n");
2245
2246
                      printf("\n\n\t\t\t\t\t\t\t\t\tEnter Your First Selection : ");
2247
                      scanf("%d",&n4);
2248
                     printf("\n\t\t\t\t\t\t\tEnter Your Second Selection : ");
2249
                      scanf("%d",&n5);
2250 }
2251
2252 void ml_cm3()
2253 {
2254
     do{
2255
                  system( "cls");
2256
                  printf("ml to cubic cm\n\n");
2257
                  float ml,cm3;cm3=1;
                  printf("Enter the volume of milliliter : ");
2258
                  scanf("%f",&ml);
2259
                  cm3 = ml * cm3;
2260
2261
                   printf("milliliter %.2f = cubic centimeter %.2f",ml,cm3);
2262
                  printf("\n\n you want to continue ? (y/n)");
2263
                  scanf("%s",&n3);
2264 } while(n3=='y'&&'Y');
2265 return main();
2266
2267
     void cm3_ml()
2268
2269
      do{
2270
                   system( "cls");
2271
                   printf("cubic cm to ml\n\n");
2272
                  float ml,cm3;ml=1;
2273
                  printf("Enter the volume of cubic centimeter : ");
2274
                  scanf("%f",&cm3);
                  ml = cm3 * ml;
2275
                  printf("cubic centimeter %.2f = milliliter %.2f",cm3,ml);
2276
2277
                  printf("\n you want to continue ? (y/n)");
2278
                  scanf("%s",&n3);
2279
2280 } while(n3=='y'&&'Y');
2281 return main();
2282 }
2283 void ml m3()
2284 {
      do{
2285
2286
                   system( "cls");
2287
                   printf("ml to cubic m\n\n");
2288
                  float ml, m3;
2289
                  printf("Enter the volume of milliliter : ");
2290
                  scanf("%f",&ml);
2291
                  m3 = m1 * 0.000001;
2292
                  printf("milliliter %.2f = cubic meter %.6f",ml,m3);
2293
                  printf("\n you want to continue ? (y/n)");
```

```
2294
                  scanf("%s",&n3);
2295
2296 } while(n3=='y'&&'Y');
2297 return main();
2298
2299 void m3_ml()
2300 {
2301
      do{
                  system( "cls");
2302
                  printf("cubic m to ml\n\n");
2303
2304
                  float ml,m3;
2305
                  printf("Enter the volume of cubic meter : ");
2306
                  scanf("%f",&m3);
2307
                  m1 = m3 / 0.000001;
2308
                  printf("cubic meter %.2f = milliliter %.6f",m3,ml);
2309
                  printf("\n you want to continue ? (y/n)");
2310
                  scanf("%s",&n3);
2311
2312 } while(n3=='y'&&'Y');
2313 return main();
2314
2315 void ml_dm3()
2316 {
2317
     do{
                 system( "cls");
2318
2319
                  printf("ml to cubic dm\n\n");
2320
                  float ml,dm3;
2321
                  printf("Enter the volume of milliliter : ");
2322
                  scanf("%f",&ml);
2323
                  dm3 = m1 * 1000;
2324
                  printf("\nMilliliter %.2f = cubic decimeter %.2f",ml,dm3);
2325
                  printf("\n you want to continue ? (y/n)");
2326
                  scanf("%s",&n3);
2327 } while(n3=='y'&&'Y');
2328 return main();
2329 }
2330 void dm3_ml()
2331
     {
2332
      do{
2333
                  system( "cls");
2334
                  printf("cubic dm to ml\n\n");
2335
                  float ml,dm3;
2336
                  printf("Enter the volume of cubic decimeter : ");
2337
                  scanf("%f",&dm3);
2338
                  ml = dm3 / 1000;
2339
                  printf("\ncubic decimeter %.2f = milliliter %.3f",dm3,ml);
2340
                  printf("\n\nAre you want to continue ? (y/n)");
2341
                  scanf("%s",&n3);
2342 } while(n3=='y'&&'Y');
2343 return main();
2344
2345 void 1_cm3()
2346 {
2347
      do{
                  system( "cls");
2348
                  printf("l to cubic cm\n\n");
2349
2350
                  float 1,cm3;
                  printf("Enter the volume of liter : ");
2351
2352
                  scanf("%f",&1);
                  cm3 = 1 * 1000;
2353
2354
                  printf("liter %.2f = cubic centimeter %.2f",1,cm3);
2355
                  printf("\n\nAre you want to continue ? (y/n)");
2356
                  scanf("%s",&n3);
2357 } while(n3=='y'&&'Y');
2358 return main();
2359 }
```

```
2360 void cm3_1()
2361
2362
      do{
2363
                  system( "cls");
2364
                  printf("cubic cm to l\n\n");
2365
                  float 1,cm3;
2366
                  printf("Enter the volume of cubic centimeter : ");
                  scanf("%f",&cm3);
2367
                  1 = cm3 / 1000;
2368
                  printf("cubic centimeter %.2f = liter %.3f",cm3,1);
2369
2370
                  printf("\n\n you want to continue ? (y/n)");
2371
                  scanf("%s",&n3);
2372 } while(n3=='y'&&'Y');
2373 return main();
2374
2375 void 1_m3()
2376 {
2377
      do{
2378
                  system( "cls");
2379
                  printf("l to cubic m\n\n");
2380
                  float 1,m3;m3=1;
2381
                  printf("Enter the volume of liter : ");
                  scanf("%f",&1);
2382
                  m3 = 1 * m3;
2383
                  printf("liter %.2f = cubic meter %.2f",1,m3);
2384
2385
                  printf("\n you want to continue ? (y/n)");
2386
                  scanf("%s",&n3);
2387 } while(n3=='y'&&'Y');
2388 return main();
2389
2390 void m3_1()
2391 {
2392
      do{
2393
                  system( "cls");
2394
                  printf("cubic m to 1\n\n");
                  float 1,m3;l=1;
2395
                  printf("Enter the volume of cubic meter : ");
2396
                  scanf("%f",&m3);
2397
                  1 = m3 * 1;
2398
                  printf("cubic meter %.2f = liter %.2f",m3,1);
2399
2400
                  printf("\n you want to continue ? (y/n)");
2401
                  scanf("%s",&n3);
2402 } while(n3=='y'&&'Y');
2403 return main();
2404
2405
     void 1_dm3()
2406
2407
      do{
                  system( "cls");
2408
                  printf("l to cubic dm\n\n");
2409
2410
                  float 1,dm3;dm3=1;
                  printf("Enter the volume of liter : ");
2411
2412
                  scanf("%f",&1);
2413
                  dm3 = 1 * dm3;
2414
                  printf("liter %.2f = cubic decimeter %.2f",1,dm3);
                  printf("\n\n you want to continue ? (y/n)");
2415
2416
                  scanf("%s",&n3);
2417 } while(n3=='y'&&'Y');
2418 return main();
2419 }
2420 void dm3_1()
2421 {
2422 do{
2423
                  system( "cls");
2424
                  printf("cubic dm to l\n\n");
2425
                  float 1,dm3;1=1;
```

```
2426
                  printf("Enter the volume of cubic decimeter : ");
2427
                  scanf("%f",&dm3);
                  1 = dm3 * 1;
2428
2429
                  printf("Cubic decimeter %.2f = liter %.2f",dm3,1);
2430
                  printf("\n you want to continue ? (y/n)");
2431
                  scanf("%s",&n3);
2432 } while(n3=='y'&&'Y');
2433 return main();
2434 }
2435 void ml 1()
2436 {
2437
      do{
2438
                  system( "cls");
                  printf("ml to l\n\n");
2439
2440
                  float ml,1;
2441
                  printf("Enter the volume of milliliter: ");
2442
                  scanf("%f",&ml);
2443
                  1 = ml / 1000;
2444
                  printf("\nmilliliter %.2f = liter %.3f",ml,1);
2445
                  printf("\n\nAre you want to continue ? (y/n)");
2446
                  scanf("%s",&n3);
2447 } while(n3=='y'&&'Y');
2448 return main();
2449
2450
2451
2452
2453
2454 void l_ml()
2455 {
2456
      do{
                  system( "cls");
2457
                  printf("1 to ml\n\n");
2458
2459
                  float 1,ml;
                  printf("Enter the volume of liter: ");
2460
                  scanf("%f",&1);
2461
                  ml = 1 * 1000;
2462
2463
                  printf("\nliter %.2f = milliliter %.3f",1,ml);
2464
                  printf("\n\n you want to continue ? (y/n)");
2465
                  scanf("%s",&n3);
2466 } while(n3=='y'&&'Y');
2467 return main();
2468
2469
     void dm3_m3()
2470
2471
      do{
2472
                  system( "cls");
2473
                  printf("cubic dm to cubic m\n\n");
2474
                  float dm3,m3;
2475
                  printf("Enter the volume of cubic decimeter : ");
2476
                  scanf("%f",&dm3);
2477
                  m3 = dm3 / 1000;
2478
                  printf("\ncubic decimeter %.2f = cubic meter %.3f",dm3,m3);
2479
                  printf("\n you want to continue ? (y/n)");
2480
                  scanf("%s",&n3);
2481 } while(n3=='y'&&'Y');
2482 return main();
2483 }
2484 void m3_dm3()
2485 {
2486
       do{
2487
                   system( "cls");
2488
                  printf("cubic m to cubic dm\n\n");
2489
                   float m3,dm3;
2490
          printf("Enter the volume of cubic meter : ");
2491
          scanf("%f",&m3);
```

```
2492
         dm3 = m3 * 1000;
2493
         printf("\ncubic meter %.2f = cubic decimeter %.2f",m3,dm3);
2494
                  printf("\n you want to continue ? (y/n)");
                  scanf("%s",&n3);
2495
2496 } while(n3=='y'&&'Y');
2497 return main();
2498
2499 void cm3 m3()
2500 {
2501
     do{
2502
                  system( "cls");
2503
                  printf("cubic cm to cubic m\n\n");
2504
                  float cm3,m3;
2505
                  printf("Enter the volume of cubic centimeter : ");
2506
                  scanf("%f",&cm3);
2507
                  m3 = cm3 / 1000000;
2508
                  printf("\ncubic centimeter %.2f = cubic meter %.6f",cm3,m3);
2509
                  printf("\n you want to continue ? (y/n)");
2510
                  scanf("%s",&n3);
2511 } while(n3=='y'&&'Y');
2512 return main();
2513
2514 void m3_cm3()
2515 {
2516 do{
2517
                  system( "cls");
2518
                  printf("cubic m to cubic cm\n\n");
2519
                  float m3,cm3;
2520
       printf("Enter the volume of cubic meter : ");
2521
        scanf("%f",&m3);
        cm3 = m3 * 1000000;
2522
         printf("\ncubic meter %.2f = cubic centimeter %.2f",m3,cm3);
2523
                  printf("\n you want to continue ? (y/n)");
2524
2525
                  scanf("%s",&n3);
2526 } while(n3=='y'&&'Y');
2527 return main();
2528 }
2529 void dm3_cm3()
2530
2531
        do{
2532
                  system( "cls");
2533
                  printf("cubic dm to cubic cm\n\n");
2534
                  float dm3,cm3;
2535
         printf("Enter the volume of cubic decimeter : ");
2536
         scanf("%f",&dm3);
2537
         cm3 = dm3 * 1000;
         printf("\ncubic decimeter %.2f = cubic centimeter %.2f",dm3,cm3);
2538
2539
                  printf("\n you want to continue ? (y/n)");
2540
                  scanf("%s",&n3);
     } while(n3=='y'&&'Y');
2541
2542 return main();
2543
     }
2544
2545 void cm3_dm3()
2546 {
2547
      do{
                  system( "cls");
2548
2549
                  printf("cubic cm to cubic dm\n\n");
2550
                  float cm3,dm3;
                  printf("Enter the volume of cubic centimeter : ");
2551
2552
                  scanf("%f",&cm3);
                  dm3 = cm3 / 1000;
2553
2554
                  printf("\ncubic centimeter %.2f = cubic decimeter %.3f",cm3,dm3);
2555
                  printf("\n you want to continue ? (y/n)");
2556
                  scanf("%s",&n3);
2557 } while(n3=='y'&&'Y');
```

```
2558 return main();
2559
2560
2561 void area()
2562 {
2563
         system( "cls");
2564
                mainpage();
                   printf("\n\n\n\n");
2565
                     printf("\t\t\t\t\t\t\t\t1.Area\n\n");
2566
                      printf("\t\t\t\t\t\t\t\t\t\t\t\t\.square mm\n");
2567
2568
                      printf("\t\t\t\t\t\t\t\t\t2.square dm\n");
2569
                      printf("\t\t\t\t\t\t\t\t\t\t\t3.square cm\n");
2570
                      printf("\t\t\t\t\t\t\t\t4.square m\n");
2571
                      printf("\t\t\t\t\t\t\t\t\t\t\t\square km\n");
2572
2573
                      printf("\n\n\t\t\t\t\t\t\t\tEnter Your First Selection : ");
2574
                      scanf("%d",&n4);
2575
                      printf("\n\t\t\t\t\t\t\t\t\tEnter Your Second Selection : ");
2576
                      scanf("%d",&n5);
2577
2578 void mm2_dm2()
2579 {
2580
     do{
2581
                  system( "cls");
2582
                  printf("square mm to square dm\n\n");
2583
                  float mm2,dm2;
2584
                  printf("Enter the area of square millimeter : ");
2585
                  scanf("%f",&mm2);
2586
                  dm2 = mm2 / 10000;
2587
                  printf("square millimeter %.2f = square decimeter %.4f",mm2,dm2);
2588
                  printf("\n you want to continue ? (y/n)");
                   scanf("%s",&n3);
2589
2590 } while(n3=='y'&&'Y');
2591 return main();
2592 }
2593 void dm2_mm2()
2594
2595
      do{
2596
                   system( "cls");
2597
                   printf("square dm to square mm\n\n");
2598
                   float mm2,dm2;
2599
                   printf("Enter the area of square decimeter : ");
2600
                   scanf("%f",&dm2);
2601
                  mm2 = dm2 * 10000;
2602
                   printf("square decimeter %.2f = square millimeter %.2f",dm2,mm2);
2603
                   printf("\n you want to continue ? (y/n)");
2604
                   scanf("%s",&n3);
2605 } while(n3=='y'&&'Y');
2606 return main();
2607
2608 void mm2_cm2()
2609
2610
      do{
2611
                  system( "cls");
2612
                  printf("square mm to square cm\n\n");
2613
                  float mm2,cm2;
2614
                  printf("Enter the area of square millimeter : ");
2615
                  scanf("%f",&mm2);
                  cm2 = mm2*0.01;
2616
2617
                  printf("square millimeter %.3f = square centimeter %.2f",mm2,cm2);
2618
                  printf("\n\nAre you want to continue ? (y/n)");
2619
                   scanf("%s",&n3);
2620 } while(n3=='y'&&'Y');
2621 return main();
2622 }
2623 void cm2_mm2()
```

```
2624
     {
2625
      do{
2626
                  system( "cls");
                  printf("square cm to square mm\n\n");
2627
2628
                  float mm2,cm2;
2629
                  printf("Enter the area of square centimeter : ");
2630
                  scanf("%f",&cm2);
                  mm2 = cm2 * 100;
2631
                  printf("square centimeter %.2f = square millimeter %.2f",cm2,mm2);
2632
2633
                  printf("\n\n you want to continue ? (y/n)");
2634
                  scanf("%s",&n3);
2635 } while(n3=='y'&&'Y');
2636 return main();
2637 }
2638 void mm2_m2()
2639 {
2640 do{
2641
                  system( "cls");
2642
                  printf("square mm to square m\n\n");
2643
                  float mm2, m2;
2644
                  printf("Enter the area of square millimeter : ");
2645
                  scanf("%f",&mm2);
                  m2 = mm2 * 0.000001;
2646
                  printf("square millimeter %.2f = square meter %.6f",mm2,m2);
2647
2648
                  printf("\n\nAre you want to continue ? (y/n)");
2649
                  scanf("%s",&n3);
2650 } while(n3=='y'&&'Y');
2651 return main();
2652
2653 void m2_mm2()
2654 {
2655
      do{
                  system( "cls");
2656
2657
                  printf("square m to square mm\n\n");
2658
                 float m2,mm2;
2659
         printf("Enter the area of square meter : ");
2660
         scanf("%f",&m2);
         mm2 = m2 * 1000000;
2661
2662
         printf("square meter %.2f = square millimeter %.2f",m2,mm2);
2663
                  printf("\n\n you want to continue ? (y/n");
2664
                  scanf("%s",&n3);
2665 } while(n3=='y'&&'Y');
2666
     return main();
2667
     }
2668
     void mm2_km2()
2669
2670
      do{
                  system( "cls");
2671
2672
                  printf("square mm to square km\n\n");
2673
                  float mm2,km2;
2674
                  printf("Enter the area of square millimeter : ");
2675
                  scanf("%f", &mm2);
2676
                  km2 = mm2 * 0.000000000001;
2677
                  printf("square millimeter %.2f = square kilometer %.12f", mm2, km2);
2678
                  printf("\n you want to continue ? (y/n)");
                  scanf("%s",&n3);
2679
2680 } while(n3=='y'&&'Y');
2681 return main();
2682 }
2683 void km2_mm2()
2684 {
2685
      do{
2686
                   system( "cls");
2687
                  printf("square km to square mm\n\n");
2688
                  float km2,mm2;
2689
         printf("Enter the area of square kilometer : ");
```

```
scanf("%f",&km2);
2690
        mm2 = km2 * 1000000000000;
2691
2692
        printf("square kilometer %.2f = square millimeter %.2f",km2,mm2);
2693
                  printf("\n\nAre you want to continue ? (y/n)");
2694
                  scanf("%s",&n3);
2695 } while(n3=='y'&&'Y');
2696 return main();
2697 }
2698 void dm2_cm2()
2699 {
2700 do{
2701
                  system( "cls");
2702
                  printf("square dm to square cm\n\n");
2703
                  float dm2,cm2;
2704
                 printf("Enter the area of square decimeter : ");
2705
                  scanf("%f",&dm2);
2706
                  cm2 = dm2 / 100;
2707
                  printf("square decimeter %.2f = square centimeter %.2f",dm2,cm2);
2708
                  printf("\n\nAre you want to continue ? (y/n)");
2709
                  scanf("%s",&n3);
2710 } while(n3=='y'&&'Y');
2711 return main();
2712
2713 void cm2_dm2()
2714 {
2715 do{
2716
                 system( "cls");
2717
                  printf("square cm to square dm\n\n");
2718
                 float cm2,dm2;
2719
                 printf("Enter the area of square centimeter : ");
2720
                  scanf("%f",&cm2);
                  dm2 = cm2 * 0.01;
2721
                  printf("square centimeter %.2f = square decimeter %.2f",cm2,dm2);
2722
2723
                  printf("\n you want to continue ? (y/n)");
2724
                  scanf("%s",&n3);
2725 } while(n3=='y'&&'Y');
2726 return main();
2727
     }
2728 void dm2_m2()
2729
2730
      do{
2731
                  system( "cls");
2732
                  printf("square dm to square m\n\n");
2733
                  float dm2, m2;
2734
                  printf("Enter the area of square decimeter : ");
2735
                  scanf("%f",&dm2);
2736
                  m2 = dm2 /0.01;
2737
                  printf("square decimeter %.2f = square meter %.2f",dm2,m2);
2738
                  printf("\n\nAre you want to continue ? (y/n)");
2739
                  scanf("%s",&n3);
2740 } while(n3=='y'&&'Y');
2741 return main();
2742
2743 void m2_dm2()
2744 {
2745
      do{
                  system( "cls");
2746
2747
                  printf("square m to square dm\n\n");
2748
                  float dm2, m2;
2749
                 printf("Enter the area of square meter : ");
2750
                  scanf("%f",&m2);
2751
                  dm2 = m2 /100;
2752
                  printf("square meter %.2f = square decimeter %.2f",m2,dm2);
2753
                  printf("\n you want to continue ? (y/n)");
2754
                  scanf("%s",&n3);
2755 } while(n3=='y'&&'Y');
```

```
2756 return main();
2757
2758 void dm2_km2()
2759
2760
      do{
                  system( "cls");
2761
2762
                  printf("square dm to square km\n\n");
                  float dm2,km2;
2763
                  printf("Enter the area of square decimeter : ");
2764
2765
                  scanf("%f",&dm2);
                  km2 = dm2 * 0.00000001;
2766
2767
                  printf("square decimeter %.2f = square kilometer %.8f",dm2,km2);
2768
                  printf("\n\n you want to continue ? (y/n)");
2769
                  scanf("%s",&n3);
2770 } while(n3=='y'&&'Y');
2771 return main();
2772
2773 void km2_dm2()
2774 {
2775
     do{
2776
                  system( "cls");
2777
                  printf("square km to square dm\n\n");
2778
                  float km2,dm2;
        printf("Enter the area of square kilometer : ");
2779
2780
         scanf("%f",&km2);
        dm2 = km2 * 100000000;
2781
2782
         printf("square kilometer %.2f = square decimeter %.2f",km2,dm2);
2783
                  printf("\n you want to continue ? (y/n)");
2784
                  scanf("%s",&n3);
2785 } while(n3=='y'&&'Y');
2786 return main();
2787
2788 void cm2_m2()
2789
     {
2790
     do{
2791
                  system( "cls");
2792
                  printf("square cm to square m\n\n");
2793
                  float cm2, m2;
2794
                  printf("Enter the area of square centimeter : ");
2795
                  scanf("%f",&cm2);
2796
                  m2 = cm2 * 0.0001;
                  printf("square centimeter %.2f = square meter %.4f",cm2,m2);
2797
2798
                  printf("\n you want to continue ? (y/n)");
2799
                  scanf("%s",&n3);
2800 } while(n3=='y'&&'Y');
2801 return main();
2802
2803
     void m2_cm2()
2804
2805
      do{
2806
                  system( "cls");
2807
                  printf("square m to square cm\n\n");
2808
                  float m2,cm2;
                  printf("Enter the area of square meter : ");
2809
2810
                  scanf("%f",&m2);
                  cm2 = m2 * 10000;
2811
2812
                  printf("square meter %.2f = square centimeter %.2f",m2,cm2);
2813
                  printf("\n you want to continue ? (y/n)");
2814
                  scanf("%s",&n3);
2815 } while(n3=='y'&&'Y');
2816 return main();
2817 }
2818 void cm2_km2()
2819 {
2820
      do{
2821
                  system( "cls");
```

```
2822
                  printf("square cm to square km\n\n");
2823
                  float cm2,km2;
2824
                  printf("Enter the area of square centimeter : ");
2825
                  scanf("%f",&cm2);
2826
                  km2 = cm2 * 0.0000000001;
2827
                  printf("square centimeter %.2f = square kilometer %.10f",cm2,km2);
2828
                  printf("\n\n you want to continue ? (y/n)");
2829
                  scanf("%s",&n3);
2830 } while(n3=='y'&&'Y');
2831 return main();
2832 }
2833 void km2_cm2()
2834 {
2835
      do{
2836
                  system( "cls");
2837
                  printf("square km to square cm\n\n");
2838
                  float km2,cm2;
2839
        printf("Enter the area of square kilometer : ");
2840
        scanf("%f",&km2);
2841
        cm2 = km2 * 10000000000;
2842
        printf("square kilometer %.2f = square centimeter %.2f",km2,cm2);
2843
                  printf("\n\nAre you want to continue ? (y/n)");
2844
                  scanf("%s",&n3);
2845
2846 } while(n3=='y'&&'Y');
2847 return main();
2848
2849 void m2_km2()
2850 {
2851
     do{
2852
                  system( "cls");
                  printf("square m to square cm\n\n");
2853
2854
                  float m2,km2;
2855
                  printf("Enter the area of square meter : ");
2856
                  scanf("%f",&m2);
                  km2 = m2 *0.000001;
2857
2858
                  printf("square meter %.2f = square kilometer %.6f",m2,km2);
2859
                  printf("\n\n you want to continue ? (y/n)");
2860
                  scanf("%s",&n3);
2861 } while(n3=='y'&&'Y');
2862
     return main();
2863
     }
2864
     void km2_m2()
2865
2866
      do{
2867
                  system( "cls");
2868
                  printf("square km to square m\n\n");
2869
                  float km2,m2;
2870
                  printf("Enter the area of square kilometer : ");
                  scanf("%f",&km2);
2871
2872
                  m2 = km2 * 1000000;
2873
                  printf("square kilometer %.2f = square meter %.2f",km2,m2);
2874
                  printf("\n\nAre you want to continue ? (y/n)");
2875
                  scanf("%s",&n3);
2876 } while(n3=='y'&&'Y');
2877 return main();
2878
```