

[illegible]

```

67         {desi_octa();}
68     else if(n4==3)
69         {deci_hexa();}
70     else
71         {main();}
72 }
73     else if(n2==2)
74     { bina();
75         if(n4==1)
76             {bina_deci();}
77         else if(n4==2)
78             {bina_octa();}
79         /* else if(n4==3)
80             {bina_hexa();} */
81         else
82             {main();}
83     }
84     else if(n2==3)
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();}
98     /* else if(n2==4)
99     {
100         hexa();
101     } */
102 }
103
104 else if(n1==4)
105 {
106     Matrix_Calculator();
107     if(n2==1)
108         {Matrix_Addition();}
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
122         {main();}
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();}

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133         else if(n4==2)
134             {f_cos();}
135         else if(n4==3)
136             {f_tan();}
137         else
138             {main();}
139     }
140     else if(n2==2)
141     { all_inverse_Trigonometric();
142       if(n4==1)
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     {
157         Unit_Converter();
158         if(n2==1)
159             {distance();
160              if(n4==1 && n5==2)
161                  {mm_cm();}
162              else if(n4==2 && n5==1)
163                  {cm_mm();}
164              else if(n4==1 && n5==3)
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();}
180              else if(n4==2 && n5==5)
181                  {cm_mile();}
182              else if(n4==5 && n5==2)
183                  {mile_cm();}
184              else if(n4==3 && n5==4)
185                  {m_kM();}
186              else if(n4==4 && n5==3)
187                  {km_m();}
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\t\t\twrong selection Are you want to go back?(y/n)");
198                   scanf("%s",&n6);}
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```

199         if(n6=='Y'&&'y')
200             {main();}
201         else
202             {distance();}
203     }
204 }
205 else if(n2==2)
206 {   mass();
207
208     if(n4==1 && n5==2)
209         {mg_g();}
210     else if(n4==2 && n5==1)
211         {g_mg(); }
212     else if(n4==1 && n5==3)
213         {mg_kg(); }
214     else if(n4==3 && n5==1)
215         {kg_mg(); }
216     else if(n4==1 && n5==4)
217         {mg_MT(); }
218     else if(n4==4 && n5==1)
219         {MT_mg(); }
220     else if(n4==2 && n5==3)
221         {g_kg(); }
222     else if(n4==3 && n5==2)
223         {kg_g(); }
224     else if(n4==2 && n5==4)
225         {g_MT(); }
226     else if(n4==4 && n5==2)
227         {MT_g(); }
228     else if(n4==3 && n5==4)
229         {kg_MT(); }
230     else if(n4==4 && n5==3)
231         {MT_kg(); }
232     else
233     {printf("\n\t\t\t\t\t\t\t\t\t\twrong selection Are you want to go back?(y/n)");
234       scanf("%s",&n6);
235       if(n6=='Y'&&'y')
236           {main();}
237       else
238           {mass();}
239
240
241     }
242
243 }
244 else if(n2==3)
245 {   volume();
246
247     if(n4==1 && n5==2)
248         {ml_l();}
249     else if(n4==2 && n5==1)
250         {l_ml(); }
251     else if(n4==1 && n5==3)
252         {ml_dm3(); }
253     else if(n4==3 && n5==1)
254         {dm3_ml(); }
255     else if(n4==1 && n5==4)
256         {ml_cm3(); }
257     else if(n4==4 && n5==1)
258         {cm3_ml(); }
259     else if(n4==1 && n5==5)
260         {ml_m3(); }
261     else if(n4==5 && n5==1)
262         {m3_ml(); }
263     else if(n4==2 && n5==3)
264         {l_dm3(); }
265     else if(n4==3 && n5==2)

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```

265         {dm3_l(); }
266     else if(n4==2 && n5==4)
267     {l_cm3(); }
268     else if(n4==4 && n5==2)
269     {cm3_l(); }
270     else if(n4==2 && n5==5)
271     {l_m3(); }
272     else if(n4==5 && n5==2)
273     {m3_l(); }
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     {printf("\n\t\t\t\t\t\t\t\twrong selection Are you want to go back?(y/n)");
288      scanf("%s",&n6);
289      if(n6=='Y'&&'y')
290          {main();}
291      else
292          {volume();}
293
294
295
296    }
297
298  }
299      else if(n2==4)
300  {   area();
301
302          if(n4==1 && n5==2)
303          {mm2_dm2(); }
304          else if(n4==2 && n5==1)
305          {dm2_mm2(); }
306          else if(n4==1 && n5==3)
307          {mm2_cm2(); }
308          else if(n4==3 && n5==1)
309          {cm2_mm2(); }
310          else if(n4==1 && n5==4)
311          {mm2_m2(); }
312          else if(n4==4 && n5==1)
313          {m2_mm2(); }
314          else if(n4==1 && n5==5)
315          {mm2_km2(); }
316          else if(n4==5 && n5==1)
317          {km2_mm2(); }
318          else if(n4==2 && n5==3)
319          {dm2_cm2(); }
320          else if(n4==3 && n5==2)
321          {cm2_dm2(); }
322          else if(n4==2 && n5==4)
323          {dm2_m2(); }
324          else if(n4==4 && n5==2)
325          {m2_dm2(); }
326          else if(n4==2 && n5==5)
327          {dm2_km2(); }
328          else if(n4==5 && n5==2)
329          {km2_dm2(); }
330          else if(n4==3 && n5==4)

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```

331         else if(n4==4 && n5==3)
332             {m2_cm2(); }
333         else if(n4==3 && n5==5)
334             {cm2_km2(); }
335         else if(n4==5 && n5==3)
336             {km2_cm2(); }
337         else if(n4==4 && n5==5)
338             {m2_km2(); }
339         else if(n4==5 && n5==4)
340             {km2_m2(); }
341     else
342     {printf("\n\t\t\t\t\t\t\twrong selection Are you want to go back?(y/n)");
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 {
364 printf("\n\n\n");
365 printf("\t\t\t\t ****      ****      *** ***** **          **** ***** ***** *****\n");
366 printf("\t\t\t\t ****      ****      *** ***** **          **** ***** ***** *****\n");
367 printf("\t\t\t\t ****      ****      ***          ****      ****      ****      ****\n");
368 printf("\t\t\t\t ****      ****      ***          ****      ****      ****      ****\n");
369 printf("\t\t\t\t ****      ****      ***      ****      ****              ****      ****      ****\n");
370 printf("\t\t\t\t ****      ****      ****      ****      ****              ****      ****      ****\n");
371 printf("\t\t\t\t ****      ****      ****      ****      ****              ****      ****      ****\n");
372 printf("\t\t\t\t ****      ****      ****      ****      ****              ****      ****      ****\n");
373
374 printf("\n\n\n\n");
375 printf("\t\t\t\t ****      ****      ****      ****      ****      ****      ****      ****\n");
376 printf("\t\t\t\t ****      ****      ****      ****      ****      ****      ****      ****\n");
377 printf("\t\t\t\t ****      ****      ****      ****      ****      ****      ****      ****\n");
378 printf("\t\t\t\t ****      ****      ****      ****      ****      ****      ****      ****\n");
379 printf("\t\t\t\t ****      ****      ****      ****      ****      ****      ****      ****\n");
380 printf("\t\t\t\t ****      ****      ****      ****      ****      ****      ****      ****\n");
381 printf("\t\t\t\t ****      ****      ****      ****      ****      ****      ****      ****\n");

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382 printf("\t\t\t\t ***** ***          **** ***** *****          ***          ***
*****      ****      ****\n");
383
384
385
386 }
387
388 void Standard_Calculator()
389 {
390
391     system( "cls");
392     mainpage();
393     printf("\n\n\n");
394     printf("\t\t\t\t\t\t\t\t\t\t\tStandard Calculator\n\n");
395     printf("\t\t\t\t\t\t\t\t\t\t\t1.Addition\n");
396     printf("\t\t\t\t\t\t\t\t\t\t\t2.Subtraction\n");
397     printf("\t\t\t\t\t\t\t\t\t\t\t3.Multiplication\n");
398     printf("\t\t\t\t\t\t\t\t\t\t\t4.Devision\n");
399     printf("\t\t\t\t\t\t\t\t\t\t\t5.Back to Main Menu");
400     printf("\n\n\t\t\t\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
411         float z,t=0;
412         int x,y;
413         printf("How many Number you will add : ");
414         scanf("%d",&x);
415
416         if(x>=2)
417         {
418             for(y=0;y<x;y++)
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\nAre 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;

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

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```

513     system( "cls");
514     printf("4.Devision\n\n");
515     float z,m;
516     int x,y=1;
517     printf("How many Number you will Divide : ");
518     scanf("%d",&x);
519     if(x>=2)
520     {
521         printf("Enter Number : ");
522         scanf("%f",&z);
523         m=z;
524         do
525         {
526             printf("Enter Number : ");
527             scanf("%f",&z);
528             m=m/z;
529             y++;
530         }
531         while(y<x);
532         printf("\nAnswer = %.2f",m);
533     }
534
535     else
536     {
537         printf("Please Enter minimum two Numbers");
538     }
539     printf("\n\nAre you want to continue ? (y/n)");
540     scanf("%s",&n3);
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\t2.Scientific Calculator\n\n");
552         printf("\t\t\t\t\t\t\t\t\t\t1.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\t3.Power\n");
555         printf("\t\t\t\t\t\t\t\t\t\t4.Factorial Number\n");
556         printf("\t\t\t\t\t\t\t\t\t\t5.Root\n");
557         printf("\t\t\t\t\t\t\t\t\t\t6.Back to Main Menu");
558         printf("\n\n\t\t\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             {
576                 t=t+n;
577                 x=x+1;
578                 printf("Enter Number : ");
579                 scanf("%f",&n);

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```

579
580     }
581
582     a=t/x;
583     if(t==0)
584     {
585         printf("\nYour average : %.2f",a=0);
586     }
587     else
588     {printf("\nYour average : %.2f",a);}
589     printf("\n\nAre you want to continue ? (y/n)");
590     scanf("%s",&n3);
591
592     }while(n3=='y'&&'Y');
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
607         printf("\nlog10(%.2f) = %.2f",x,log10(x));
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{
619         system( "cls");
620         printf("3.Power\n\n");
621         int x,y,p;
622         printf("Enter Base : ");
623         scanf("%d",&x);
624         printf("Enter power : ");
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)");
630         scanf("%s",&n3);
631     } while(n3=='y'&&'Y');
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 : ");

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[illegible]

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

```

```

843         remainder[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(remainder[i])
853         {
854             case 10:
855                 printf("A");
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;
866             case 14:
867                 printf("E");
868                 break;
869             case 15:
870                 printf("F");
871                 break;
872             default :
873                 printf("%ld",remainder[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 void bina()
885 {
886     system( "cls");
887     mainpage();
888     printf("\n\n\n");
889     printf("\t\t\t\t\t\t\t2.Binary to ....\n\n");
890     printf("\t\t\t\t\t\t\t1.Binary to Decimal\n\n");
891     printf("\t\t\t\t\t\t\t2.Binary to Octal\n\n");
892     // printf("\t\t\t\t\t\t\t3.Binary to Hexadecimal\n\n");
893     printf("\t\t\t\t\t\t\t3.Back to Main Menu");
894     printf("\n\n\t\t\t\t\t\t\t\t\t\t\tEnter Your Selection : ");
895     scanf("%d",&n4);
896 }
897
898 void bina_deci()
899 {
900     do{
901         system( "cls");
902         printf("1.Binary to Decimal\n\n");
903     long int num;
904
905     printf("Enter the binary number : ");
906     scanf("%ld", &num);
907 }
908

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```

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

```

[illegible]


```

1041     {
1042
1043         binary[i]=m%2;
1044         m=m/2;
1045         i++;
1046     }
1047
1048     printf("\nBinary number : ",octal);
1049     for(y=i-1;y>0;y--)
1050     {
1051         printf("%d",binary[y]);
1052     }
1053 }
1054
1055     printf("\n\nAre you want to continue ? (y/n)");
1056     scanf("%s",&n3);
1057
1058 }while(n3=='y'&&'Y');
1059
1060 return main();
1061 }
1062
1063 void octa_hexa()
1064 {
1065
1066 }
1067
1068 void hexa()
1069 {
1070     system( "cls");
1071     mainpage();
1072     printf("\n\n\n");
1073     printf("\t\t\t\t\t\t\t\t\t\t4.Hexadecimal to ....\n\n");
1074     printf("\t\t\t\t\t\t\t\t\t\t1.Hexadecimal to Decimal\n");
1075     printf("\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\t\t4.Back to Main Menu");
1078     printf("\n\n\t\t\t\t\t\t\t\t\t\tEnter Your Selection : ");
1079     scanf("%d",&n4);
1080 }
1081
1082 void Matrix_Calculator()
1083 {
1084     system( "cls");
1085     mainpage();
1086     printf("\n\n\n");
1087     printf("\t\t\t\t\t\t\t\t\t\t4.Matrix Calculator\n\n");
1088     printf("\t\t\t\t\t\t\t\t\t\t1.Addition\n");
1089     printf("\t\t\t\t\t\t\t\t\t\t2.Subtraction\n");
1090     printf("\t\t\t\t\t\t\t\t\t\t3.Multiplication\n");
1091     printf("\t\t\t\t\t\t\t\t\t\t4.Determine\n");
1092     // printf("\t\t\t\t\t\t\t\t\t\t5.Inverse\n");
1093     printf("\t\t\t\t\t\t\t\t\t\t5.Back to Main Menu");
1094     printf("\n\n\t\t\t\t\t\t\t\t\t\tEnter Your Selection : ");
1095     scanf("%d",&n2);
1096
1097 }
1098
1099 void Matrix_Addition()
1100 {
1101     int i, j, mat1[10][10], mat2[10][10], sum[10][10];
1102     int row1, coll, row2, col2;
1103     do{
1104
1105         system( "cls");
1106         printf("1.Matrix Addition\n\n\n");

```

```

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

```



```

1239         if(j==coll)
1240         {
1241             printf("\n\n");
1242         }
1243     }
1244 }
1245 }
1246 }
1247 printf("\n\nAre you want to continue ? (y/n)");
1248 scanf("%s",&n3);
1249
1250 }while(n3=='y'&&'Y');
1251
1252 return main();
1253 }
1254
1255 void Matrix_Multiplication()
1256 {
1257     int row1, coll, row2,col2, i, j, k, sum = 0;
1258     int first[10][10], second[10][10], multiply[10][10];
1259
1260     do{
1261         system( "cls");
1262         printf("3.Matrix Multiplication\n\n\n");
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",&coll);//n
1267         printf("\n");
1268         printf("Enter the number of Rows of Matrix 2      : ");
1269         scanf("%d",&row2);//p
1270         printf("Enter the number of Columns of Matrix 2 : ");
1271         scanf("%d",&col2);//q
1272
1273         if (coll != row2) {
1274             printf("\nMatrices with entered orders can't be multiplied with each other.\n");
1275         }
1276         else{
1277             printf("\nEnter the elements of first matrix\n\n");
1278
1279             for (i = 1; i<= row1; i++)//c
1280             {
1281                 for (j = 1; j <= coll; j++)//d
1282                 { printf("Enter the Element a[%d][%d] : ", i, j);
1283                     scanf("%d", &first[i][j]);}
1284             }
1285
1286             printf("\nEnter the elements of second matrix\n\n");
1287
1288             for (i = 1; i <= row2; i++)
1289             {
1290                 for (j = 1; j <= col2; j++)
1291                 {printf("Enter the Element a[%d][%d] : ", i, j);
1292                     scanf("%d", &second[i][j]); }
1293             }
1294
1295             for (i = 1; i <= row1; i++)
1296             {
1297                 for (j = 1; j <= col2; j++)
1298                 {
1299                     for (k = 1; k <= row2; k++) {
1300                         sum = sum + first[i][k]*second[k][j];
1301                     }
1302
1303                     multiply[i][j] = sum;
1304                     sum = 0;
1305                 }
1306             }
1307         }
1308     }
1309 }

```

```

1305     }
1306
1307     printf("\n\nProduct of entered matrices :\n\n");
1308
1309     for (i = 1; i <= row1; i++)
1310     {
1311         for (j = 1; j <= col2; j++)
1312             printf("%d\t", multiply[i][j]);
1313
1314         printf("\n");
1315     }
1316 }
1317 printf("\n\nAre you want to continue ? (y/n)");
1318 scanf("%s",&n3);
1319
1320 }while(n3=='y'&&'Y');
1321
1322 return main();
1323 }
1324
1325 void alldetermine()
1326 {
1327     system( "cls");
1328     mainpage();
1329     printf("\n\n\n\n");
1330     printf("\t\t\t\t\t\t\t\t\t\t4.Determine of Matrix\n\n");
1331     printf("\t\t\t\t\t\t\t\t\t\t1.2x2\n");
1332     printf("\t\t\t\t\t\t\t\t\t\t2.3x3\n");
1333     printf("\t\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\t\tEnter Your Selection : ");
1335     scanf("%d",&n4);
1336
1337 }
1338
1339 void Determine2()
1340 {
1341     int A[3][3];
1342     int row, col,i,j;
1343     long det;
1344
1345     do{
1346         system( "cls");
1347         printf("1.2x2\n\n");
1348
1349         printf("\n\nEnter elements in matrix of size 2x2: \n\n");
1350         for(i=1; i<=2; i++)
1351         {
1352             for(j=1; j<=2; j++)
1353             { printf("Enter the Element A[%d][%d] : ", i, j);
1354                 scanf("%d", &A[i][j]);
1355             }
1356         }
1357         printf("\nThe matrix is\n");
1358         for(i=1;i<=2;i++){
1359             printf("\n");
1360             for(j=1;j<=2;j++)
1361                 printf("%d\t",A[i][j]);
1362         }
1363
1364
1365         det = (A[1][1] * A[2][2]) - (A[1][2] * A[2][1]);
1366
1367         printf("\n\nDeterminant of matrix A = %ld", det);
1368
1369         printf("\n\nAre 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
1386         system( "cls");
1387         printf("2.3x3\n\n");
1388         printf("Enter elements in matrix of size 3x3: \n\n");
1389         for(i=1;i<=3;i++)
1390         {
1391             for(j=1;j<=3;j++)
1392             {printf("Enter the Element A[%d][%d] : ", i, j);
1393              scanf("%d",&a[i][j]);}
1394         }
1395         printf("\nThe matrix is\n");
1396         for(i=1;i<=3;i++){
1397             printf("\n");
1398             for(j=1;j<=3;j++)
1399                 printf("%d\t",a[i][j]);
1400         }
1401
1402         determinant = a[1][1]*((a[2][2]*a[3][3]) - (a[2][3]*a[3][2])) -a[1][2]*(a[2][1]*a[3][3] - a[2][3]*a[3][1]
1403         ) + a[1][3]*(a[2][1]*a[3][2] - a[2][2]*a[3][1]);
1404
1405         printf("\n\nDeterminant of 3X3 matrix: %ld",determinant);
1406
1407         printf("\n\nAre you want to continue ? (y/n)");
1408         scanf("%s",&n3);
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");
1425     printf("\t\t\t\t\t\t\t\t\t\t5.Trigonometric Calculator\n\n");
1426     printf("\t\t\t\t\t\t\t\t\t\t1.Sin(x)/Cos(x)/Tan(x)\n");
1427     printf("\t\t\t\t\t\t\t\t\t\t2.Sin(x)/Cos(x)/Tan(x) inverse\n");
1428     printf("\t\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\t\tEnter Your Selection : ");
1430     scanf("%d",&n2);
1431
1432 }
1433 void all_Trigonometric()
1434 {
1435     system( "cls");

```

[illegible]

```

1502     scanf("%f",&x);
1503     a=22/7;
1504     a=a/180;
1505     z=x*a;
1506     y=tan(z);
1507     printf("\ntan(%.2f) = %.2f",x,y);
1508     printf("\n%.2f degree = %.2f radian",x,z);
1509
1510     printf("\n\nAre 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\t2.Sin(x)/Cos(x)/Tan(x) inverse\n\n");
1524     printf("\t\t\t\t\t\t\t\t\t\t1.Sin(x) inverse\n");
1525     printf("\t\t\t\t\t\t\t\t\t\t2.Cos(x) inverse\n");
1526     printf("\t\t\t\t\t\t\t\t\t\t3.Tan(x) inverse\n");
1527     printf("\t\t\t\t\t\t\t\t\t\t4.Back");
1528     printf("\n\n\t\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\n\n");
1540         printf("Enter sin inverse value : ");
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)");
1551         scanf("%s",&n3);
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\n\n");
1565         printf("Enter cos inverse value : ");
1566         scanf("%f",&x);
1567         y=acos(x);

```


[illegible]

[illegible]

```

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;
1709         printf("Enter the distance in meters : ");
1710         scanf("%f",&m);
1711         mm = m *1000;
1712         printf("%.2f m = %.2f mm\n\n",m,mm);
1713
1714         printf("\n\nAre you want to continue ? (y/n)");
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;
1727         printf("Enter the distance in millimeters : ");
1728         scanf("%f",&mm);
1729
1730         km = mm /1000000;
1731         printf("%.2f mm = %f km\n\n",mm,km);
1732
1733
1734         printf("\n\nAre 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;
1747         printf("Enter the distance in kilometers : ");
1748         scanf("%f",&km);
1749
1750         mm = km *1000000;
1751         printf("%.2f km = %.2f mm\n\n",km,mm);
1752
1753         printf("\n\nAre you want to continue ? (y/n)");
1754         scanf("%s",&n3);
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;
1770     printf("%.2f cm = %.2f m\n\n",cm,m);
1771
1772     printf("\n\nAre 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\nAre 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
1804         printf("Enter the distance in centimeter: ");
1805         scanf("%f", &cm);
1806         km = cm/100000;
1807
1808         printf("%.2f cm = %.5f km\n\n",cm,km);
1809
1810
1811         printf("\n\nAre 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
1825         printf("Enter length in kilometer: ");
1826         scanf("%f", &km);
1827         cm = km * 100000;
1828         printf("%.2f km = %.2f cm\n\n",km, cm);
1829
1830         printf("\n\nAre 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 : ");
1844         scanf("%f",&cm);
1845         m = cm /160934;
1846         printf("%.2f cm = %f miles\n\n",cm,m);
1847
1848         printf("\n\nAre 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");
1859         printf("miles to cm\n\n");
1860         float m, cm;
1861         printf("Enter the distance in miles : ");
1862         scanf("%f",&m);
1863
1864         cm = m * 160934;
1865         printf("%f miles = %.2f cm\n\n",m,cm);
1866
1867
1868         printf("\n\nAre you want to continue ? (y/n)");
1869         scanf("%s",&n3);
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;
1881         printf("Enter the distance in meters : ");
1882         scanf("%f",&m);
1883
1884         km = m/1000;
1885         printf("%.2f m = %.3f km\n\n",m,km);
1886
1887         printf("\n\nAre you want to continue ? (y/n)");
1888         scanf("%s",&n3);
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;
1900         printf("Enter the distance in kilometers : ");
1901         scanf("%f",&km);
1902
1903         m = km * 1000;
1904         printf("%.2f km = %.2f m\n\n",km,m);
1905
1906         printf("\n\nAre 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 : ");
1920         scanf("%f",&m);
1921         mi = m /1609.34;
1922         printf("%.2f m = %.9f miles\n\n",m,mi);
1923
1924         printf("\n\nAre 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;
1937         printf("Enter the distance in miles : ");
1938         scanf("%f",&mi);
1939
1940         m = mi *1609.34;
1941         printf("%.2f miles = %.2f m\n\n",mi,m);
1942
1943         printf("\n\nAre 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{
1953         system( "cls");
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;
1960         printf("%.2f km = %.2f miles\n\n",km,m);
1961
1962
1963         printf("\n\nAre 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");
1974         printf("m to km\n\n");
1975         float m, km;
1976         printf("Enter the distance in miles : ");
1977         scanf("%f",&m);
1978
1979         km = m *1.60934;
1980         printf("%.2f miles = %.2f km\n\n",m,km);
1981
1982
1983         printf("\n\nAre 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();
1994     printf("\n\n\n");
1995     printf("\t\t\t\t\t\t\t\t\t\t2.Mass\n\n");
1996     printf("\t\t\t\t\t\t\t\t\t\t1.mg\n");
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\t\t4.MT\n");
2000     // printf("\t\t\t\t\t\t\t\t\t\t5.Back");
2001     printf("\n\n\t\t\t\t\t\t\t\t\t\tEnter Your First Selection : ");
2002     scanf("%d",&n4);
2003     printf("\n\t\t\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\nAre 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;
2034     printf("%.2f g = %.2f mg",g,mg);
2035
2036         printf("\n\nAre you want to continue ? (y/n)");
2037         scanf("%s",&n3);
2038     } while(n3=='y'&&'Y');
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\nAre 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;
2068         printf("Enter the mas in kilograms : ");
2069         scanf("%f",&kg);
2070         mg = kg*1000000;
2071         printf("%.2f kg = %.2f mg\n\n",kg,mg);
2072
2073
2074             printf("\n\nAre 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\n");
2086         float mg,mt;
2087
2088         printf("Enter the mas in milligrams : ");
2089         scanf("%f",&mg);
2090         mt = mg /1000000000;
2091         printf("%.2f mg = %.9f MT",mg,mt);
2092
2093
2094             printf("\n\nAre 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
2108         printf("Enter the mas in metric tones : ");
2109         scanf("%f",&mt);
2110         mg = mt *1000000000;
2111         printf("%.2f MT = %.2f mg",mt,mg);
2112
2113
2114         printf("\n\nAre 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;
2130         printf("%.2f g = %.3f kg\n\n",g,kg);
2131
2132         printf("\n\nAre you want to continue ? (y/n)");
2133         scanf("%s",&n3);
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;
2145         printf("Enter the mas in kilograms : ");
2146         scanf("%f",&kg);
2147         g = kg*1000;
2148         printf("%.2f kg = %.2f g",kg,g);
2149
2150
2151         printf("\n\nAre you want to continue ? (y/n)");
2152         scanf("%s",&n3);
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
2166         printf("Enter the mas in grams : ");
2167         scanf("%f",&g);
2168         mt = g /1000000;
2169         printf("%.2f g = %.6f mt",g,mt);
2170
2171         printf("\n\nAre you want to continue ? (y/n)");
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);
2186         g = mt *1000000;
2187         printf("%.2f mt = %.2f g",mt,g);
2188         printf("\n\nAre 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{
2200         system( "cls");
2201         printf("kg to MT\n\n");
2202         float kg,mt;
2203         printf("Enter the mas in kilograms : ");
2204         scanf("%f",&kg);
2205         mt = kg*1000;
2206         printf("%.2f kg = %.2f mt\n\n",kg,mt);
2207
2208
2209         printf("\n\nAre 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 {
2218     do{
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

```

[illegible]

```

2294         scanf("%s",&n3);
2295
2296     } while(n3=='y'&&'Y');
2297     return main();
2298 }
2299 void m3_ml()
2300 {
2301     do{
2302         system("cls");
2303         printf("cubic m to ml\n\n");
2304         float ml,m3;
2305         printf("Enter the volume of cubic meter : ");
2306         scanf("%f",&m3);
2307         ml = m3 / 0.000001;
2308         printf("cubic meter %.2f = milliliter %.6f",m3,ml);
2309         printf("\n\nAre 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{
2318         system("cls");
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 = ml * 1000;
2324         printf("\nMilliliter %.2f = cubic decimeter %.2f",ml,dm3);
2325         printf("\n\nAre 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 l_cm3()
2346 {
2347     do{
2348         system("cls");
2349         printf("l to cubic cm\n\n");
2350         float l,cm3;
2351         printf("Enter the volume of liter : ");
2352         scanf("%f",&l);
2353         cm3 = l * 1000;
2354         printf("liter %.2f = cubic centimeter %.2f",l,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_l()
2361 {
2362     do{
2363         system( "cls");
2364         printf("cubic cm to l\n\n");
2365         float l,cm3;
2366         printf("Enter the volume of cubic centimeter : ");
2367         scanf("%f",&cm3);
2368         l = cm3 / 1000;
2369         printf("cubic centimeter %.2f = liter %.3f",cm3,l);
2370         printf("\n\nAre you want to continue ? (y/n)");
2371         scanf("%s",&n3);
2372     } while(n3!='y'&&'Y');
2373     return main();
2374 }
2375 void l_m3()
2376 {
2377     do{
2378         system( "cls");
2379         printf("l to cubic m\n\n");
2380         float l,m3;m3=1;
2381         printf("Enter the volume of liter : ");
2382         scanf("%f",&l);
2383         m3 = l * m3;
2384         printf("liter %.2f = cubic meter %.2f",l,m3);
2385         printf("\n\nAre you want to continue ? (y/n)");
2386         scanf("%s",&n3);
2387     } while(n3!='y'&&'Y');
2388     return main();
2389 }
2390 void m3_l()
2391 {
2392     do{
2393         system( "cls");
2394         printf("cubic m to l\n\n");
2395         float l,m3;l=1;
2396         printf("Enter the volume of cubic meter : ");
2397         scanf("%f",&m3);
2398         l = m3 * l;
2399         printf("cubic meter %.2f = liter %.2f",m3,l);
2400         printf("\n\nAre you want to continue ? (y/n)");
2401         scanf("%s",&n3);
2402     } while(n3!='y'&&'Y');
2403     return main();
2404 }
2405 void l_dm3()
2406 {
2407     do{
2408         system( "cls");
2409         printf("l to cubic dm\n\n");
2410         float l,dm3;dm3=1;
2411         printf("Enter the volume of liter : ");
2412         scanf("%f",&l);
2413         dm3 = l * dm3;
2414         printf("liter %.2f = cubic decimeter %.2f",l,dm3);
2415         printf("\n\nAre you want to continue ? (y/n)");
2416         scanf("%s",&n3);
2417     } while(n3!='y'&&'Y');
2418     return main();
2419 }
2420 void dm3_l()
2421 {
2422     do{
2423         system( "cls");
2424         printf("cubic dm to l\n\n");
2425         float l,dm3;l=1;

```

```

2426         printf("Enter the volume of cubic decimeter : ");
2427         scanf("%f",&dm3);
2428         l = dm3 * 1;
2429         printf("Cubic decimeter %.2f = liter %.2f",dm3,l);
2430         printf("\n\nAre you want to continue ? (y/n)");
2431         scanf("%s",&n3);
2432     } while(n3=='y'&&'Y');
2433     return main();
2434 }
2435 void ml_l()
2436 {
2437     do{
2438         system( "cls");
2439         printf("ml to l\n\n");
2440         float ml,l;
2441         printf("Enter the volume of milliliter: ");
2442         scanf("%f",&ml);
2443         l = ml / 1000;
2444         printf("\nmilliliter %.2f = liter %.3f",ml,l);
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{
2457         system( "cls");
2458         printf("l to ml\n\n");
2459         float l,ml;
2460         printf("Enter the volume of liter: ");
2461         scanf("%f",&l);
2462         ml = l * 1000;
2463         printf("\nliter %.2f = milliliter %.3f",l,ml);
2464         printf("\n\nAre 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\nAre 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\nAre you want to continue ? (y/n)");
2495         scanf("%s",&n3);
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\nAre 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);
2522         cm3 = m3 * 1000000;
2523         printf("\ncubic meter %.2f = cubic centimeter %.2f",m3,cm3);
2524         printf("\n\nAre you want to continue ? (y/n)");
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;
2538         printf("\ncubic decimeter %.2f = cubic centimeter %.2f",dm3,cm3);
2539         printf("\n\nAre you want to continue ? (y/n)");
2540         scanf("%s",&n3);
2541     } while(n3=='y'&&'Y');
2542     return main();
2543 }
2544
2545 void cm3_dm3()
2546 {
2547     do{
2548         system( "cls");
2549         printf("cubic cm to cubic dm\n\n");
2550         float cm3,dm3;
2551         printf("Enter the volume of cubic centimeter : ");
2552         scanf("%f",&cm3);
2553         dm3 = cm3 / 1000;
2554         printf("\ncubic centimeter %.2f = cubic decimeter %.3f",cm3,dm3);
2555         printf("\n\nAre you want to continue ? (y/n)");
2556         scanf("%s",&n3);
2557     } while(n3=='y'&&'Y');

```

[illegible]


```

2624 {
2625     do{
2626         system( "cls");
2627         printf("square cm to square mm\n\n");
2628         float mm2,cm2;
2629         printf("Enter the area of square centimeter : ");
2630         scanf("%f",&cm2);
2631         mm2 = cm2 * 100;
2632         printf("square centimeter %.2f = square millimeter %.2f",cm2,mm2);
2633         printf("\n\nAre 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);
2646         m2 = mm2 * 0.000001;
2647         printf("square millimeter %.2f = square meter %.6f",mm2,m2);
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{
2656         system( "cls");
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);
2661         mm2 = m2 * 1000000;
2662         printf("square meter %.2f = square millimeter %.2f",m2,mm2);
2663         printf("\n\nAre 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{
2671         system( "cls");
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\nAre you want to continue ? (y/n)");
2679         scanf("%s",&n3);
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 : ");

```

```

2690     scanf("%f",&km2);
2691     mm2 = km2 * 1000000000000;
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);
2721         dm2 = cm2 * 0.01;
2722         printf("square centimeter %.2f = square decimeter %.2f",cm2,dm2);
2723         printf("\n\nAre 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{
2746         system( "cls");
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\nAre 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{
2761         system( "cls");
2762         printf("square dm to square km\n\n");
2763         float dm2,km2;
2764         printf("Enter the area of square decimeter : ");
2765         scanf("%f",&dm2);
2766         km2 = dm2 * 0.00000001;
2767         printf("square decimeter %.2f = square kilometer %.8f",dm2,km2);
2768         printf("\n\nAre 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;
2779         printf("Enter the area of square kilometer : ");
2780         scanf("%f",&km2);
2781         dm2 = km2 * 100000000;
2782         printf("square kilometer %.2f = square decimeter %.2f",km2,dm2);
2783         printf("\n\nAre 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;
2797         printf("square centimeter %.2f = square meter %.4f",cm2,m2);
2798         printf("\n\nAre 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;
2809         printf("Enter the area of square meter : ");
2810         scanf("%f",&m2);
2811         cm2 = m2 * 10000;
2812         printf("square meter %.2f = square centimeter %.2f",m2,cm2);
2813         printf("\n\nAre 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\nAre 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     } while(n3=='y'&&'Y');
2846     return main();
2847 }
2848 void m2_km2()
2849 {
2850     do{
2851         system( "cls");
2852         printf("square m to square cm\n\n");
2853         float m2,km2;
2854         printf("Enter the area of square meter : ");
2855         scanf("%f",&m2);
2856         km2 = m2 *0.000001;
2857         printf("square meter %.2f = square kilometer %.6f",m2,km2);
2858         printf("\n\nAre you want to continue ? (y/n)");
2859         scanf("%s",&n3);
2860     } while(n3=='y'&&'Y');
2861     return main();
2862 }
2863 void km2_m2()
2864 {
2865     do{
2866         system( "cls");
2867         printf("square km to square m\n\n");
2868         float km2,m2;
2869         printf("Enter the area of square kilometer : ");
2870         scanf("%f",&km2);
2871         m2 = km2 * 1000000;
2872         printf("square kilometer %.2f = square meter %.2f",km2,m2);
2873         printf("\n\nAre you want to continue ? (y/n)");
2874         scanf("%s",&n3);
2875     } while(n3=='y'&&'Y');
2876     return main();
2877 }
2878 }

```