```c
/*"""Program details"""
    programmer  : MD. Atikul Islam
    Instructor  : MD. Imran Mostofa
    program time: Approximately 15 hours
==>NOTE:All the Program is written by programmer.This program does not copy
a single line from any where.In some program,Programmer has developed some logic
and you can under this logic easily
self made logic:
1)  For GCD calculation of n number
2)  For LCM calculation of n number
3)  For making head tail game
4)  For toss n times
5)  For playing tic tac toe game

This program can perform the following program:
1)General calculation like +,-,*,/
        1)Addition
        2)Subtraction
        2)Subtraction
        3)Multiplication
        3)Multiplication
        4)Division
        5)Division with module
        6)Sum of n number
        7)product of n number
2)Temperature calculation cel.kel.fer.
        1)c to f
        2)c to k
        3)f to c
        4)f to k
        5)k to c
        6)k to f
3)Series calculation like factorial
        1)Sum of Numbers
        2)Sum of positive Numbers
        3)Sum of negative Numbers
        4)Factorial
        5)Print Numbers
4)GCD & LCM calculation
        1)Define GCD of n numbers
        2)Define LCM of n numbers
5)Play a game or toss!
        1)play a game
        2)You can toss n time
        3)play can head-tail with computer
        4)play tic tac toe game
6)Other short program
        1)check prime number:
        2)print prime number:
OK,All about the program.Now see my program and calculate which you need!
*/
#include<stdio.h>
#include<math.h>
#include<stdlib.h>
#include<time.h>
#include<string.h>
int ttt_start,ttt_endround;
int ttt_i,ttt_j,ttt_p=0;
char ttt_a[9]={'1','2','3','4','5','6','7','8','9'};
char name1[25];
char name2[25];
int readrule;
char program_pass[15]={"1100"},pre_program_pass[15],password_test=0;
int ttt_input()
{
        if(ttt_start%2!=0)
        {
            printf("\nEnter the position number for ('x') for %s=",name1);
        }
        else
        {
            printf("\nEnter the position number for ('o') for %s=",name2);
        }
        scanf("%d",&ttt_p);
        ttt_p=ttt_p-1;
        if(ttt_start==1||ttt_start==3||ttt_start==5||ttt_start==7||ttt_start==9)
        {
            ttt_a[ttt_p]='x';
        }
        if(ttt_start==2||ttt_start==4||ttt_start==6||ttt_start==8)
        {
            ttt_a[ttt_p]='o';
        }
        return 0;
```

```
85  }
86  int ttt_draw()
87  {
88          for(ttt_i=1;ttt_i<=7;ttt_i=ttt_i+1)
89          {
90              for(ttt_j=1;ttt_j<=7;ttt_j=ttt_j+1)
91              {
92                  if((ttt_i==1||ttt_i==7)&&(ttt_j==1||ttt_j==2||ttt_j==4||ttt_j==6||ttt_j==7))
93                  {
94                      printf(" ");
95                  }
96                  else if((ttt_j==1||ttt_j==7)&&(ttt_i==2||ttt_i==4||ttt_i==6))
97                  {
98                     printf(" ");
99                  }
100                 else if((ttt_j==2||ttt_j==4||ttt_j==6)&&(ttt_i==2||ttt_i==4||ttt_i==6))
101                 {
102                     printf("%c",ttt_a[ttt_p]);
103                     ttt_p=ttt_p+1;
104                 }
105                 else
    if((ttt_i==1||ttt_i==2||ttt_i==3||ttt_i==4||ttt_i==5||ttt_i==6||ttt_i==7)
106                         &&(ttt_j==3||ttt_j==5))
107                 {
108                     printf("|");
109                 }
110                 else
111                 {
112                     printf("-");
113                 }
114             }
115             printf("\n");
116         }
117         return 0;
118 }
119 double scin(double numbervalue)
120 {
121     double answer=0;
122     while(numbervalue>=10)
123     {
124         numbervalue=numbervalue/10;
125         answer=answer+1;
126     }
127     return answer;
128 }
129 main()
130 {
131     for(;;)
132     {
133     system("cls");
134     if(password_test!=0)
135     {
136         printf("\t\t\t\t\tWrong password!!!");
137     }
138             printf("Please Input Password:");
139             scanf(" %s",pre_program_pass);
140             password_test=strcmp(pre_program_pass,program_pass);
141
142     if(password_test==0)
143     {
144     system("cls");
145     //Introducing with program
146     int loop_i;
147     for(loop_i=1;;loop_i=loop_i+1)
148     {
149         system("cls");
150         if(loop_i<2)
151         {
152             printf("Welcome to my program");
153         }
154         if(loop_i>=2)
155         {
156             printf("Welcome again to my program");
157         }
158     printf("\n\nHere you can do this function that are given below.");
159     printf("\n1)General calculation like +,-,*,/");
160     printf("\n2)Temperature calculation cel.kel.fer.");
161     printf("\n3)Series calculation like factorial");
162     printf("\n4)GCD & LCM calculation");
163     printf("\n5)Play a game or toss!");
164     printf("\n6)Other short program");
165     printf("\nWrite the corresponding number that you wanted to do\n");
166     //choosing the corresponding number program
167     int road;
```

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168         printf("option inputed=");
169         scanf("\t %d",&road);
170         if(road==1)
171         {
172             //General calculation program code
173             system("cls");
174             printf("Under general calculation you can do:");
175             printf("\n\t1)Addition");
176             printf("\n\t2)Subtraction");
177             printf("\n\t3)Multiplication");
178             printf("\n\t4)Division");
179             printf("\n\t5)Division with module");
180             printf("\n\t6)Sum of n number");
181             printf("\n\t7)product of n number");
182             printf("\n\tWrite the corresponding number that you wanted to do");
183             //choosing option program
184             int road1;
185             printf("\noption inputed=");
186             scanf("\n\t%d",&road1);
187             float gen1,gen2,gen;
188             //taking number for add,subs,mult,div
189             if(road1==1)
190             {
191                 //addition program
192                 printf("\n\tEnter two values only\n");
193             printf("value inputed=");
194             scanf("\t%f",&gen1);
195             printf("\nvalue inputed=");
196             scanf("\t%f",&gen2);
197                 gen=gen1+gen2;
198                 printf("\n\t\tThe result is=%f",gen);
199             }
200             else if(road1==2)
201             {
202                 //Subtraction program
203                 printf("\n\tEnter two values only\n");
204             printf("value inputed=");
205             scanf("\t%f",&gen1);
206             printf("\nvalue inputed=");
207             scanf("\t%f",&gen2);
208                 gen=gen1-gen2;
209                 printf("\n\t\tThe result is=%f",gen);
210             }
211             else if(road1==3)
212             {
213                 //Multiplication program
214                 printf("\n\tEnter two values only\n");
215             printf("value inputed=");
216             scanf("\t%f",&gen1);
217             printf("\nvalue inputed=");
218             scanf("\t%f",&gen2);
219                 gen=gen1*gen2;
220                 printf("\n\t\tThe result is=%f",gen);
221             }
222             else if(road1==4)
223             {
224                 //Division program
225                 printf("\n\tEnter two values only\n");
226             printf("value inputed=");
227             scanf("\t%f",&gen1);
228             printf("\nvalue inputed=");
229             scanf("\t%f",&gen2);
230                 gen=gen1/gen2;
231                 printf("\n\t\tThe result is=%f",gen);
232             }
233             else if(road1==5)
234             {
235                 //Division with module program
236                 printf("\n\tEnter two values only\n");
237             printf("value inputed=");
238             scanf("\t%f",&gen1);
239             printf("\nvalue inputed=");
240             scanf("\t%f",&gen2);
241                 gen=(int)(gen1/gen2);
242                 printf("\n\t\tDivision=%f",gen);
243                 int mod;
244                 mod=(int)gen1%(int)gen2;
245                 printf("\n\t\tModule=%d",mod);
246             }
247             else if(road1==6)
248             {
249                 long int n_sum[31],n_n,n_i,total_sum=0;
250                 printf("\nhow many number=");
251                 scanf("%ld",&n_n);
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252             for(n_i=1;n_i<=n_n;n_i=n_i+1)
253             {
254                 printf("\nvalue inputed=");
255                 scanf("\t%ld",&n_sum[n_i]);
256                 total_sum=total_sum+n_sum[n_i];
257             }
258             printf("\n\t\tThe result is=%ld",total_sum);
259         }
260         else if(road1==7)
261         {
262             long int ns_sum[31],ns_n,ns_i,total_product=1;
263             printf("\nhow many number=");
264             scanf("%ld",&ns_n);
265             for(ns_i=1;ns_i<=ns_n;ns_i=ns_i+1)
266             {
267                 printf("\nvalue inputed=");
268                 scanf("\t%ld",&ns_sum[ns_i]);
269                 total_product=total_product*ns_sum[ns_i];
270             }
271             printf("\n\t\tThe result is=%ld",total_product);
272         }
273         else
274         printf("\n\t\tWRONG INPUT!!!");
275     }
276     else if(road==2)
277     {
278         //temperature calculation
279         system("cls");
280         printf("Here \"c\" stands for celcius & \"f\" stands for farenhight & \"k\"stands
    for kelvin");
281         printf("\n1)c to f");
282         printf("\n2)c to k");
283         printf("\n3)f to c");
284         printf("\n4)f to k");
285         printf("\n5)k to c");
286         printf("\n6)k to f");
287         printf("\nWrite the corresponding number that you wanted to do");
288         int road2;
289         printf("\noption inputed=");
290         scanf("%d",&road2);
291         if(road2==1)
292         {
293             printf("\nEnter the Temperature=");
294             float temp1,temp;
295             scanf("\n%f",&temp1);
296           temp=(float)((9.0/5.0)*temp1)+32.0;
297           printf("\nThe result of temperture is %f",temp);
298         }
299         else if(road2==2)
300         {
301             printf("\nEnter the Temperature=");
302             float temp1,temp;
303             scanf("\n%f",&temp1);
304             temp=temp1+273.0;
305             printf("\nThe result of temperture is %f",temp);
306         }
307         else if(road2==3)
308         {
309             printf("\nEnter the Temperature=");
310             float temp1,temp;
311             scanf("\n%f",&temp1);
312             temp=(float)(5.0/9.0)*(temp1-32.0);
313             printf("\nThe result of temperture is %f",temp);
314         }
315         else if(road2==4)
316         {
317             printf("\nEnter the Temperature=");
318             float temp1,temp;
319             scanf("\n%f",&temp1);
320             temp=(float)(5.0/9.0)*(temp1-32.0)+273.0;
321             printf("\nThe result of temperture is %f",temp);
322         }
323         else if(road2==5)
324         {
325             printf("\nEnter the Temperature=");
326             float temp1,temp;
327             scanf("\n%f",&temp1);
328             temp=temp1-273.0;
329             printf("\nThe result of temperture is %f",temp);
330         }
331         else if(road2==6)
332         {
333             printf("\nEnter the Temperature=");
334             float temp1,temp;
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```
            scanf("\n%f",&temp1);
            temp=(float)(9.0/5.0)*(temp1-273.0)+32.0;
            printf("\nThe result of temperture is %f",temp);
        }
        else
            printf("wrong input!!!");
    }
    //let's start series calculation
    else if(road==3)
    {
        system("cls");
        printf("Here you can:");
        printf("\n1)Sum of Numbers");
        printf("\n2)Sum of positive Numbers");
        printf("\n3)Sum of negative Numbers");
        printf("\n4)Factorial");
        printf("\n5)Print Numbers");
        printf("\nWrite the corresponding number that you wanted to do");
        int road3;
        printf("\noption inputed=");
        scanf("%d",&road3);
        int s=0,i;
        if(road3==1)
        {
            printf("\nEnter the value of \"n\"=");
            int ser1,ser;
            scanf("%d",&ser1);
            printf("\nThe result is=");
            for(i=0;i<=ser1;i=i+1)
            {
                s=s+i;
            }
            printf("%d",s);

        }
        else if(road3==2)
        {
            printf("\nEnter the value of \"n\"=");
            int ser1,ser;
            scanf("%d",&ser1);
            printf("\nThe result is=");
            for(i=0;i<=ser1;i=i+2)
            {
                s=s+i;
            }
            printf("%d",s);
        }
        else if(road3==3)
        {
            printf("\nEnter the value of \"n\"=");
            int ser1,ser;
            scanf("%d",&ser1);
            printf("\nThe result is=");
            for(i=1;i<=ser1;i=i+2)
            {
                s=s+i;
            }
            printf("%d",s);
        }
        else if(road3==4)
        {
            printf("\nEnter the value of \"n\"=");
            int ser1,ser;
            scanf("%d",&ser1);
            double s1=1;
            for(i=1;i<=ser1;i=i+1)
            {
                s1=s1*i;
            }
            printf("\nThe result is=");
            double power_s1=0;
            power_s1=scin(s1);
            //power_s1=(int)power_s1;
            s1=(s1)/(pow(10,power_s1));
            printf("%lf x 10^%0.0lf",s1,power_s1);
        }
        else if(road3==5)
        {
            printf("\nEnter the value of \"n\"=");
            int ser1,ser;
            scanf("%d",&ser1);
            printf("\nThe result is=");
            for(i=0;i<=ser1;i=i+1)
            {
```

```
                printf("\t%d",i);
            }
            printf("%d",s);
        }
        else
            printf("\nWrong input");

    }
    else if(road==4)
    {
        //GCD & LCMcalculation
        system("cls");
        printf("\n1)Define GCD of n numbers");
        printf("\n2)Define LCM of n numbers");
        int road4;
        printf("\nWrite the corresponding number that you wanted to do");
        printf("\noption inputed=");
        scanf("%d",&road4);
        //gcd for n number
        if(road4==1)
        {
                int gcd_a[20],gcd_n,gcd_i,gcd_product=1,gcd,gcd_j,gcd_x;
        printf("\nHere you can calculate gcd for n number");
        printf("\nHow many numbers to calculate:");
        scanf("%d",&gcd_n);
        //taking number
        for(gcd_i=1;gcd_i<=gcd_n;gcd_i=gcd_i+1)
        {
            printf("\nEnter the number:");
            scanf("%d",&gcd_a[gcd_i]);
            gcd_product=gcd_product*gcd_a[gcd_i];
        }
        int gcd_min;
        gcd_min=gcd_a[1];
        for(gcd_i=2;gcd_i<=gcd_n;gcd_i=gcd_i+1)
        {
            if(gcd_min>gcd_a[gcd_i])
            {
                gcd_min=gcd_a[gcd_i];
            }
        }
        for(gcd_i=1;gcd_i<=gcd_min;gcd_i=gcd_i+1)
        {
            for(gcd_j=1;gcd_j<=gcd_n;gcd_j=gcd_j+1)
            {
                gcd_x=gcd_a[gcd_j]%gcd_i;
                if(gcd_x!=0)
                {
                    break;
                }
                else if(gcd_x==0 && gcd_j==gcd_n)
                {
                    gcd=gcd_i;
                }

            }
        }
        printf("\ngcd is=%d\n\n\n",gcd);
        }
        //lcm
        else if(road4==2)
        {
                int lcm_a[20],lcm_n,lcm_i,lcm_product=1,lcm,lcm_j,lcm_x;
        printf("\nHere you can calculate lcm for n number");
        printf("\nHow many numbers to calculate:");
        scanf("%d",&lcm_n);
        //taking number
        for(lcm_i=1;lcm_i<=lcm_n;lcm_i=lcm_i+1)
        {
            printf("\nEnter the number:");
            scanf("%d",&lcm_a[lcm_i]);
            lcm_product=lcm_product*lcm_a[lcm_i];
        }
        //minimum number
        int lcm_min;
        lcm_min=lcm_a[1];
        for(lcm_i=2;lcm_i<=lcm_n;lcm_i=lcm_i+1)
        {
            if(lcm_min>lcm_a[lcm_i])
            {
                lcm_min=lcm_a[lcm_i];
            }
        }
        //maximum number
```

```
503             int lcm_max;
504             lcm_max=lcm_a[1];
505             for(lcm_i=2;lcm_i<=lcm_n;lcm_i=lcm_i+1)
506             {
507                 if(lcm_max<lcm_a[lcm_i])
508                 {
509                     lcm_max=lcm_a[lcm_i];
510                 }
511             }
512             //finding lcm
513             for(lcm_i=lcm_product;lcm_i>=lcm_min;lcm_i=lcm_i-1)
514             {
515                 for(lcm_j=1;lcm_j<=lcm_n;lcm_j=lcm_j+1)
516                 {
517                     lcm_x=(lcm_i)%(lcm_a[lcm_j]);
518                     if(lcm_x==0)
519                     {
520                         if(lcm_j==lcm_n)
521                         {
522                             lcm=lcm_i;
523                         }
524                     }
525                     else
526                     {
527                         break;
528                     }
529                 }
530             }
531             printf("\nLCM is=%d\n\n\n",lcm);
532             }
533             else
534                 printf("\nWrong Input!!!");
535         }
536         else if(road==5)
537         {
538             //program of play game and tossing
539             system("cls");
540             printf("\tHere you can:");
541             printf("\n\t1)play a game of identify number.");
542             printf("\n\t2)You can toss n time");
543             printf("\n\t3)play head-tail with computer");
544             printf("\n\t4)play tic tac toe game");
545             printf("\n\tWrite the corresponding number that you wanted to do");
546             //choosing option program
547             int road5;
548             printf("\noption input=");
549             scanf("\n\t%d",&road5);
550 
551             if(road5==1)
552             {//program of identifying game
553                 system("cls");
554                 int fav1,fav2,fav,maxfav,minfav,number,rnumber;
555         //printf("\n");
556         //scanf("\n%d");
557         //taking number
558         printf("Hello!Let's play a game together of number identification.");
559         printf("\n1)Read rules.(recommended)");
560         printf("\n2)start game.");
561         printf("\noption input=");
562         scanf("%d",&readrule);
563         if(readrule==1)
564         {
565         printf("Rules:\n\tAt first, you should give two number.");
566         printf("\n\tThen, Computer will remind a number between your two number.");
567         printf("\n\tThen, You will get get 5 times to gauss the number.");
568         printf("\n\t**If you can correctly gauss the number in 5 times then you will win.");
569         printf("\n\t**Else Computer will show his number.");
570         }
571         system("pause");
572         int round;
573          for(round=1;;round=round+1)
574         {
575 
576             if(round>=2)
577             {
578                 printf("\n\n\n\nlet's play another game!");
579             }
580         printf("\nAt first,say your two favourite number.");
581         printf("\nfavorite no 1 is=");
582         scanf("%d",&fav1);
583         printf("\nfavorite no 2 is=");
584         scanf("%d",&fav2);
585         //identify min max number
586         if(fav1>fav2)
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```
587             {
588                 maxfav=fav1;
589                 minfav=fav2;
590             }
591         else
592             {   maxfav=fav2;
593                 minfav=fav1;
594             }
595         fav=maxfav-minfav+1;
596         printf("\nI have a number in my mind between %d to %d.",maxfav,minfav);
597         printf("\nCan you guass the number?Let's guass it!");
598 
599         //generate random number
600 
601 
602 
603 
604         srand(time(NULL));
605         rnumber=(rand()%fav)+minfav;
606         int start,endstart=5;
607         //loop for round(1-n)
608         for(start=1;start<=endstart;start=start+1)
609         {
610 
611         printf("\nguass number=");
612         scanf("%d",&number);
613 
614 
615         //condition
616         if(number==rnumber)
617       {
618           printf("\t\tYou win.Best of luck!");
619           break;
620       }
621       else if(number>rnumber)
622       {
623           printf("\t\tYour number is greater than my number");
624           if(start==5)
625             printf("\n\t\aMy number was=%d",rnumber);
626       }
627       else if(rnumber>number)
628       {
629           printf("\t\tYour number is smaller than my number");
630           if(start==5)
631             printf("\n\t\aMy number was=%d",rnumber);
632       }
633         number=0;
634         }
635         rnumber=0;
636         int exitgame;
637         printf("\nDo you to want play again.if you want write \"0\" else anynumber :");
638         scanf("%d",&exitgame);
639         if(exitgame==0)
640             continue;
641         else
642             break;
643         }
644        printf("\n\n\t\t\t\t\tLet's end for today\n\n\n\n");
645             }
646             else if(road5==2)
647             {
648                 system("cls");
649                 int toss;
650         srand(time(NULL));
651         long int toss_n,toss_i,head=0,tail=0;
652         printf("Welcome to the world of tossing. Let's start a bit! Are you ready!!!!!");
653         printf("Rules:\n\tAt first, you should give a number that how much times computer will
    toss.");
654         printf("\n\tThen, Computer will toss n times.");
655         printf("\n\tThen, computer will show the result that,");
656         printf("\n\t**How many times times \"Head\" arise");
657         printf("\n\t**And how many times times \"Tail\" arise\n");
658         system("pause");
659         while(1)
660         {
661         printf("\n\tEnter the number toss=");
662         scanf("%ld",&toss_n);
663         for(toss_i=1;toss_i<=toss_n;toss_i=toss_i+1)
664         {
665         toss=rand()%2;
666         if(toss==1)
667             head=head+1;
668         else
669             tail=tail+1;
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```
670         }
671         printf("\nThe number of Head is=%ld",head);
672         printf("\nThe number of tail is=%ld",tail);
673         head=0,tail=0;
674         int exittoss;
675         printf("\nDo you to want toss again.if you want write \"0\" else write \"any
    number\":");
676         scanf("%d",&exittoss);
677         if(exittoss==0)
678             continue;
679         else
680             break;
681         }
682             }
683         else if(road5==3)
684         {
685             system("cls");
686             int rnum,num,n,i,mscore=0,cscore=0;
687             char faketoss;
688             int ctoss=0,toss,mtoss=1;
689             srand(time(NULL));
690         printf("Here you can play head tail");
691         printf("\n1)Read rules.(recommended)");
692         //printf("\n");
693         printf("\n2)start game.");
694         printf("\noption input=");
695         scanf("%d",&readrule);
696         if(readrule==1)
697         {
698         printf("Rules:\n\tHead-tail is a game that looks like a cricket game.");
699         printf("\n\tAt first, you should toss with computer that who will bat first and who
    will ball first.");
700         printf("\n\tWhose who win the toss,will \"bat\" first and another will \"ball\"
    first.");
701         printf("\n\tThen,The batsman will give a number and also the baller will give a
    number.");
702         printf("\n\t**if the both number is same than the batsman will be \"out\".");
703         printf("\n\t**Else the batsman will get run.");
704         //printf("\n\t");
705         printf("\n\tThe batsman will get 5 ball to bat. and then the target will be set.");
706         printf("\n\tThen the baller will bat in the same way.he should score bigger than
    target.");
707         printf("\n\t**if He can across the target he will win.");
708         printf("\n\t**Else He will loss the game.");
709         }
710         system("pause");
711         printf("\nlet's start.");
712         system("pause");
713         system("cls");
714         //try to make toss
715         levelfaketoss:
716         printf("let's toss.\nEnter head/tail.\nIf head click\"h\",If tail click\"t\"");
717         printf("\ntoss= ");
718         scanf(" %c",&faketoss);
719         if(faketoss=='h'||faketoss=='t')
720         {
721         toss=rand()%2;
722         if(toss==1)
723         {
724         printf("\nYou have winned toss!\nClick to start.");
725         system("pause");
726         system("cls");
727         printf("let's start with you.");
728         //user input
729         for(i=1;i<=6;i=i+1)
730         {
731             levelnum1:
732             printf("\n\n(%d) input number=",i);
733             scanf("%d",&num);
734             if(num>6)
735             {
736                 printf("\nWrong input//Cheat");
737                 goto levelnum1;
738             }
739             //genarate random number
740             {
741                 levelrnum1:
742                 rnum=rand()%7;
743                 if(rnum==0)
744                 {
745                     goto levelrnum1;
746                 }
747             }
748             if(num==rnum)
```

```
749             {
750                 printf("\nYou OUT!");
751                 {
752                   break;
753                 }
754 
755             }
756             else
757             {
758                 mscore=mscore+num;
759             }
760             {
761             system("cls");
762             printf("You input=%d",num);
763             printf("\nComputer input=%d",rnum);
764             printf("\nyour score is=%d",mscore);
765             }
766             rnum=0;
767             num=0;
768 
769             //system("cls");
770         }
771 
772         printf("\nFinal score:");
773         printf("\nYour final score is=%d",mscore);
774         printf("\nClick any button");
775         system("pause");
776         system("cls");
777         printf("Let's start with computer");
778         //computer input
779         for(i=1;i<=6;i=i+1)
780         {
781             //system("cls");
782             levelnum2:
783 
784             printf("\ntarget=%d",mscore);
785             printf("\n\n(%d) gaussing number=",i);
786             scanf("%d",&num);
787             if(num>6)
788             {
789                 printf("\nWrong input//Cheat");
790                 goto levelnum2;
791             }
792             //genarate random number
793             {
794                 levelrnum2:
795                 rnum=rand()%7;
796                 if(rnum==0)
797                 {
798                     goto levelrnum2;
799                 }
800             }
801             if(num==rnum)
802             {
803                 printf("\ncomputer OUT!");
804 
805                 {
806                   break;
807                 }
808             }
809             else
810             {
811                 cscore=cscore+rnum;
812             }
813 
814 
815             {system("cls");
816             printf("You input=%d",num);
817             printf("\nComputer input=%d",rnum);
818             printf("\ncomputer'c score is=%d",cscore);
819             }
820             rnum=0;
821             num=0;
822             if(cscore>mscore)
823             {
824                 break;
825             }
826         }
827 
828         printf("\nFinal score:");
829         printf("\nComputer's final score is=%d",cscore);
830         printf("\nClick any button");
831         system("pause");
832         system("cls");
```

```
833         printf("Final score:");
834         printf("\nYour final score is=%d",mscore);
835         printf("\nComputer's final score is=%d",cscore);
836         if(mscore>cscore)
837         {
838             printf("\n\t\t\tYou win!!\n\n\n\n\n");
839         }
840         else if(cscore>mscore)
841         {
842             printf("\n\t\t\tcomputer win!!\n\n\n\n\n");
843         }
844         else
845         {
846             printf("\n\t\t\tMatch draw!!\n\n\n\n\n");
847         }
848 
849         }
850 
851         else if(toss==0)
852         {
853 
854 
855 
856             printf("\nYou have lossed toss!\nClick to start.");
857             system("pause");
858             system("cls");
859             printf("let's start with computer.");
860         //user input
861         for(i=1;i<=6;i=i+1)
862         {
863             levelnum3:
864             printf("\n\n(%d) gaussing number=",i);
865             scanf("%d",&num);
866             if(num>6)
867             {
868                 printf("\nWrong input//Cheat");
869                 goto levelnum3;
870             }
871             //genarate random number
872             {
873                 levelrnum3:
874                 rnum=rand()%7;
875                 if(rnum==0)
876                 {
877                     goto levelrnum3;
878                 }
879             }
880             if(num==rnum)
881             {
882                 printf("\nComputer OUT!");
883 
884                 {
885                   break;
886                 }
887             }
888             else
889             {
890                 cscore=cscore+rnum;
891             }
892 
893             {system("cls");
894             printf("You input=%d",num);
895             printf("\nComputer input=%d",rnum);
896             printf("\nComputer's score is=%d",cscore);
897             }
898             rnum=0;
899             num=0;
900             //system("cls");
901         }
902         printf("\nFinal score:");
903         printf("\nComputer's final score is=%d",cscore);
904         printf("\nClick any button");
905         system("pause");
906         system("cls");
907         printf("Let's start with you.");
908         //computer input
909         for(i=1;i<=6;i=i+1)
910         {
911             //system("cls");
912             levelnum4:
913 
914             printf("\ntarget=%d",mscore);
915             printf("\n\n(%d) input number=",i);
916             scanf("%d",&num);
```

```
            if(num>6)
            {
                printf("\nWrong input//Cheat");
                goto levelnum4;
            }
            //genarate random number
            {
                levelrnum4:
                rnum=rand()%7;
                if(rnum==0)
                {
                    goto levelrnum4;
                }
            }
            if(num==rnum)
            {
                printf("\nyou OUT!");

                {
                  break;
                }
            }
            else
            {
                mscore=mscore+num;
            }


            {system("cls");
            printf("You input=%d",num);
            printf("\nComputer input=%d",rnum);
            printf("\nyour score is=%d",mscore);
            }
            rnum=0;
            num=0;
            if(cscore<mscore)
            {
                break;
            }
        }
        printf("\nFinal score:");
        printf("\nYour final score is=%d",mscore);
        printf("\nClick any button");
        system("pause");
        system("cls");
        printf("Final score:");
        printf("\nYour final score is=%d",mscore);
        printf("\nComputer's final score is=%d",cscore);
        if(mscore>cscore)
        {
            printf("\n\t\t\tYou win!!\n\n\n\n\n");
        }
        else if(cscore>mscore)
        {
            printf("\n\t\t\tcomputer win!!\n\n\n\n\n");
        }
        else
        {
            printf("\n\t\t\tMatch draw!!\n\n\n\n\n");
        }









        }
        }
        else
        {
            printf("\nWrong Input!");
            goto levelfaketoss;
        }
        }
        else if(road5==4)
        {
            system("cls");
                printf("\n1)Read rules.");
        //printf("\n");
        printf("\n2)start game.");
        printf("\noption input=");
        scanf("%d",&readrule);
        if(readrule==1)
```

```
1001        {
1002        printf("\nIf you don't know about this game game then go to you tube.");
1003        printf("\nIt's a most popular game that you may play in childhood.");
1004        printf("\nI will don't tell about this game.");
1005        printf("\nIf you start the game then you can understand about the game.");
1006        }
1007            printf("Enter 1st player name:");
1008        scanf(" %s",name1);
1009        printf("\nEnter 2nd player name:");
1010        scanf(" %s",name2);
1011        printf("\nWelcome %s and %s in the game of tic tac toe.\n Let's start.",name1,name2);
1012        system("pause");
1013        while(1)
1014        {
1015        for(ttt_start=1;ttt_start<=9;ttt_start=ttt_start+1)
1016        {
1017            system("cls");
1018            ttt_draw();
1019            ttt_input();
1020            ttt_p=0;
1021            {   //condition to break
1022
        if((ttt_a[0]=='x'&&ttt_a[1]=='x'&&ttt_a[2]=='x')||(ttt_a[3]=='x'&&ttt_a[4]=='x'&&ttt_a[5]==
        'x')||(ttt_a[6]=='x'&&ttt_a[7]=='x'&&ttt_a[8]=='x')
1023
        ||(ttt_a[0]=='x'&&ttt_a[3]=='x'&&ttt_a[6]=='x')||(ttt_a[1]=='x'&&ttt_a[4]=='x'&&ttt_a[7]==
        x')||(ttt_a[2]=='x'&&ttt_a[5]=='x'&&ttt_a[8]=='x')
1024
        ||(ttt_a[0]=='x'&&ttt_a[4]=='x'&&ttt_a[8]=='x')||(ttt_a[2]=='x'&&ttt_a[4]=='x'&&ttt_a[6]==
        x'))
1025                    {
1026                        system("cls");
1027                        ttt_draw();
1028                        break;
1029                    }
1030
1031                else
        if((ttt_a[0]=='o'&&ttt_a[1]=='o'&&ttt_a[2]=='o')||(ttt_a[3]=='o'&&ttt_a[4]=='o'&&ttt_a[5]==
        'o')||(ttt_a[6]=='o'&&ttt_a[7]=='o'&&ttt_a[8]=='o')
1032
        ||(ttt_a[0]=='o'&&ttt_a[3]=='o'&&ttt_a[6]=='o')||(ttt_a[1]=='o'&&ttt_a[4]=='o'&&ttt_a[7]==
        o')||(ttt_a[2]=='o'&&ttt_a[5]=='o'&&ttt_a[8]=='o')
1033
        ||(ttt_a[0]=='o'&&ttt_a[4]=='o'&&ttt_a[8]=='o')||(ttt_a[2]=='o'&&ttt_a[4]=='o'&&ttt_a[6]==
        o'))
1034                    {
1035                        system("cls");
1036                        ttt_draw();
1037                        break;
1038                    }
1039            }
1040        }
1041
1042        {
1043                //Result of ttt
1044
        if((ttt_a[0]=='x'&&ttt_a[1]=='x'&&ttt_a[2]=='x')||(ttt_a[3]=='x'&&ttt_a[4]=='x'&&ttt_a[5]==
        'x')||(ttt_a[6]=='x'&&ttt_a[7]=='x'&&ttt_a[8]=='x')
1045
        ||(ttt_a[0]=='x'&&ttt_a[3]=='x'&&ttt_a[6]=='x')||(ttt_a[1]=='x'&&ttt_a[4]=='x'&&ttt_a[7]==
        x')||(ttt_a[2]=='x'&&ttt_a[5]=='x'&&ttt_a[8]=='x')
1046
        ||(ttt_a[0]=='x'&&ttt_a[4]=='x'&&ttt_a[8]=='x')||(ttt_a[2]=='x'&&ttt_a[4]=='x'&&ttt_a[6]==
        x'))
1047            {
1048                printf("\n\t\t\t\a %s is Winner\n",name1);
1049            }
1050
1051        else
        if((ttt_a[0]=='o'&&ttt_a[1]=='o'&&ttt_a[2]=='o')||(ttt_a[3]=='o'&&ttt_a[4]=='o'&&ttt_a[5]==
        'o')||(ttt_a[6]=='o'&&ttt_a[7]=='o'&&ttt_a[8]=='o')
1052
        ||(ttt_a[0]=='o'&&ttt_a[3]=='o'&&ttt_a[6]=='o')||(ttt_a[1]=='o'&&ttt_a[4]=='o'&&ttt_a[7]==
        o')||(ttt_a[2]=='o'&&ttt_a[5]=='o'&&ttt_a[8]=='o')
1053
        ||(ttt_a[0]=='o'&&ttt_a[4]=='o'&&ttt_a[8]=='o')||(ttt_a[2]=='o'&&ttt_a[4]=='o'&&ttt_a[6]==
        o'))
1054            {
1055                printf("\n\t\t\t\a %s is Winner\n",name2);
1056            }
1057            else
1058            {
1059                printf("\n\t\t\t\a Match draw\n");
1060            }
```

```
1061          printf("\nDo you want to continue?if you want,write any number.or if you want exit
      write \"0\".What do you want:");
1062      int ttt_endround;
1063      scanf("%d",&ttt_endround);
1064      if(ttt_endround==0)
1065          break;
1066      else
1067          {
1068              ttt_a[0]='1';
1069              ttt_a[1]='2';
1070              ttt_a[2]='3';
1071              ttt_a[3]='4';
1072              ttt_a[4]='5';
1073              ttt_a[5]='6';
1074              ttt_a[6]='7';
1075              ttt_a[7]='8';
1076              ttt_a[8]='9';
1077              ttt_p=0;
1078          }
1079
1080  }
1081      }
1082      printf("\nThanks %s and %s",name1,name2);
1083      }
1084      else
1085      {
1086          system("cls");
1087          printf("wrong Input!!");
1088      }
1089      }
1090
1091      else if(road==6)
1092      {
1093          //write other program
1094          int road6;
1095          system("cls");
1096          printf("here you can do:");
1097          printf("\n1)check prime number");
1098          printf("\n2)print prime number upto n");
1099          printf("\n3)print prime number between range");
1100          printf("\noption inputed=");
1101          scanf("\n\t%d",&road6);
1102          if(road6==1)
1103          {
1104      //check prime number
1105          system("cls");
1106          long int prime_n,p_i,p_x;
1107      //printf("\n");
1108      printf("Enter the number:");
1109      scanf("%ld",&prime_n);
1110      for(p_i=2;p_i<prime_n;p_i=p_i+1)
1111      {
1112          p_x=prime_n%p_i;
1113          if(p_x==0)
1114          {
1115              break;
1116          }
1117      }
1118      if(p_x!=0)
1119      {
1120          printf("\n%ld is a prime number.",prime_n);
1121      }
1122      else
1123      {
1124          printf("\n%ld is not a prime number.",prime_n);
1125      }
1126      }
1127          else if(road6==2)
1128          {
1129              system("cls");
1130      printf("print prime number upto n.");
1131      long int prime_np,p_ip,p_xp,p_jp,p_conut=0;
1132      //printf("\n");
1133      printf("Enter the value of n:");
1134      scanf("%ld",&prime_np);
1135      printf("\nPrime numbers are:\n");
1136      for(p_jp=2;p_jp<=prime_np;p_jp=p_jp+1)
1137      {
1138          for(p_ip=2;p_ip<p_jp;p_ip=p_ip+1)
1139          {
1140              p_xp=p_jp%p_ip;
1141              if(p_xp==0)
1142              {
1143                  break;
```

```
                }
            }
            if(p_jp==2)
            {
                printf("\t%ld",p_jp);
                p_conut=p_conut+1;
            }
            if(p_xp!=0)
            {
                printf("\t%ld",p_jp);
                p_conut=p_conut+1;
            }
        }
        printf("\nTotal prime number between 0-%ld is=%ld",prime_np,p_conut);
        }
            else if(road6==3)
            {
                system("cls");
        printf("print prime number Between Range.");
        long int prime_np1,prime_np2,p_ip,p_xp,p_jp,p_conut=0;
        //printf("\n");
        printf("\nEnter the range starting number(small number):");
        scanf("%ld",&prime_np1);
        printf("Enter the range ending number(Big number):");
        scanf("%ld",&prime_np2);
        if(prime_np1>prime_np2)
        {
            int prime_np_temp;
            prime_np_temp=prime_np2;
            prime_np2=prime_np1;
            prime_np1=prime_np_temp;
        }
        printf("\nPrime Numbers are:\n");
        for(p_jp=prime_np1;p_jp<=prime_np2;p_jp=p_jp+1)
        {
            for(p_ip=2;p_ip<p_jp;p_ip=p_ip+1)
            {
                p_xp=p_jp%p_ip;
                if(p_xp==0)
                {
                    break;
                }
            }
            if(p_jp==2)
            {
                printf("\t%ld",p_jp);
                p_conut=p_conut+1;
            }
            if(p_xp!=0)
            {
                printf("\t%ld",p_jp);
                p_conut=p_conut+1;
            }
        }
        printf("\nTotal prime number between %ld-%ld is=%ld",prime_np1,prime_np2,p_conut);
            }
            else
            {
                printf("\nWrong Input!");
            }
        }
        else
            {   system("cls");
                printf("\aWRONG INPUT!!!");}
            {
            int exit;
            printf("\n\n\nwrite any number to continue whole program or write \"0\" to exit.");
            printf("\noption Inputed=");
            scanf("%d",&exit);
            if(exit==0)
                break;
            else
                continue;
            printf("\nthanks\n\n\n\n\n\n\n\n\n\n\n\n\n");
            system("pause");
            }
        }
        break;
        }
        }
    }
```