

```
main-1.c
#include <stdio.h>
#include <stdlib.h>
#include <time.h>

int main()
{
    float x1, y1, x2, y2, dis;
    printf("Input x1: ");
    scanf("%f", &x1);

    printf("Input x2: ");
    scanf("%f", &x2);

    printf("Input y1: ");
    scanf("%f", &y1);

    printf("Input y2: ");
    scanf("%f", &y2);

    dis = ((x2 - x1) * (x2 - x1)) + ((y2 - y1) * (y2 - y1));

    printf("Distance between the said points = %.4f", sqrt(dis));
    printf("\n");
    return 0;
}
```

```
#include <stdio.h>
#include <stdlib.h>
#include <time.h>

int main()
{
    float x, y, z, P, A;

    printf("Input x: ");
    scanf("%f", &x);

    printf("Input y: ");
    scanf("%f", &y);

    printf("Input z: ");
    scanf("%f", &z);

    if(x < (y+z) && y < (x+z) && z < (y+x))
    {
        P = x+y+z;
        printf("\nPerimeter = %.1f\n", P);
    }
    else
    {
        printf("Not possible to create a triangle");
    }
}
```

```
#include <stdio.h>
#include <stdlib.h>
#include <time.h>

int main()
{
    int age;
    int cnt_baby = 0, cnt_school = 0, cnt_adult = 0;
    int count = 0;
    while (count<20)
    {
        printf("Enter age of person [%d]: ", count+1);
        scanf("%d", &age);
        if(age>= 0 && age<=5)
            cnt_baby++;
        else if(age>=6 && age<=17)
            cnt_school++;
        else if(age>17)
            cnt_adult++;

        count++;
    }
    printf("Baby age: %d\n",cnt_baby);
    printf("School age: %d\n",cnt_school);
    printf("Adult age: %d\n",cnt_adult);

    return 0;
}
```

```

#include <time.h>

#include <stdio.h>
#include <stdlib.h>
#include <time.h>

int main()
{
    int randomnom = 0, count = 0, num;
    int stime;
    long ltime;
    ltime = time(NULL);
    stime = (unsigned) ltime/2;
    srand(stime);
    randomnom = rand()%1000;
    while(1)
    {
        count+=1;
        printf("\n\nGuess a number from (0 to 1000): ");
        scanf("%d", &num);
        if (randomnom == num)
            {
                printf("You have guessed a correct number.");
                break;
            }
        else if(randomnom < num)
            {
                printf("Generated number is less than entered number, try again");
            }
        else if(randomnom > num)
            {
                printf("Generated number is greater than entered number, try again");
            }

        if(count==7)
            {
                printf("\n\n### Maximum number of attempts reached");
                break;
            }
    }
    return 0;
}

```

```
maizn.c
#include <stdio.h>
#include <stdlib.h>

int main()
{
    int days, years, weeks;
    days = 1329;

    years = days/365;

    weeks = (days % 365)/7;

    days = days - (days%365)%7;

    printf("Years = %d\n", years);
    printf("Weeks = %d\n", weeks);
    printf("Days = %d\n", days);

    return 0;
}
```