

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

```
int main()
```

```
    //Nwala ugochukwu chimzindu
    //18/eng06/045
    //Find the perimeter of a triangle
        float x, y, z, P, A;
    printf("\nInput the first number: ");
    scanf("%f", &x);
    printf("\nInput the second number: ");
    scanf("%f", &y);
    printf("\nInput the third number: ");
    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..!");
    }
}
```

```
int main()
// Program to guess a random number
// 18/Eng06/045
{
    int random_genNo=0,count=0,num;
    int stime;
    long ltime;

    //initialise srand with current time, to get random number on every run
    ltime = time(NULL);
    stime = (unsigned) ltime/2;
    srand(stime);

    //generate random number
    random_genNo=rand()%1000;

    //run infinite loop
    while(1)
    {
        //increase counter
        count+=1;

        //read number from user
        printf("\n\nGuess a number from (0 to 1000): ");
        scanf("%d",&num);

        //compare entered number with generated number

        if(random_genNo==num){
            printf("Congratulations, you have guessed a correct number.");
            break;
        }
        else if(random_genNo<num){
            printf("Generated number is less than entered number, try your luck again...");
        }
        else if(random_genNo>num){
            printf("Generated number is greater than entered number, try your luck again...");
        }

        if(count==7){
            printf("\n\n### Maximum limit of attempt finished, BAD LUCK !!!\n");
            break;
        }
    }
}
```

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

int main()
// program to read the age of 15 people one by one
// 18/Eng06/045
{
    int age;
    int cnt_baby=0,cnt_school=0,cnt_adult=0;
    int count=0;

    while(count<15)
    {
        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
            cnt_adult++;

        //increase counter
        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 <stdio.h>
#include <stdlib.h>
|
int main()
//program to convert the year, month and days
// 18/Eng06/045
{
    int days, years, weeks;

    /* Input total number of days from user */
    printf("Enter days: ");
    scanf("%d", &days);

    /* Conversion */
    years = (days / 365); // Ignoring leap year
    weeks = (days % 365) / 7;
    days = days - ((years * 365) + (weeks * 7));

    /* Print all resultant values */
    printf("YEARS: %d\n", years);
    printf("WEEKS: %d\n", weeks);
    printf("DAYS: %d", days);

    return 0;
}
```

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

```
int main()
```

```
// write a C program to calculate the distance btw 2 points
```

```
// 18/eng06/045
```

```
{
```

```
    float x1, y1, x2, y2, gdistance;
```

```
    printf("Input x1: ");
```

```
    scanf("%f", &x1);
```

```
    printf("Input y1: ");
```

```
    scanf("%f", &y1);
```

```
        printf("Input x2: ");
```

```
    scanf("%f", &x2);
```

```
    printf("Input y2: ");
```

```
    scanf("%f", &y2);
```

```
    gdistance = ((x2-x1)*(x2-x1))+((y2-y1)*(y2-y1));
```

```
    printf("Distance between the said points: %.4f", sqrt(gdistance));
```

```
    printf("\n");
```

```
    return 0;
```

```
}
```