

# Ighere oghenefejiro Victor

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## **1) To convert 1343 to years, weeks and days.**

```
include <stdio.h>

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

    days = 1329;

    // Converts days to years, weeks and days

    years = days/365;

    weeks = (days % 365)/7;

    days = days- ((years*365) + (weeks*7));

    printf("Years: %d\n", years);

    printf("Weeks: %d\n", weeks);

    printf("Days: %d \n", days);

    return 0;
```

## **2) Distance between two points**

```
#include<stdio.h>

#include<math.h>
```

```

int main()

{

    int x1, y1, x2, y2, x, y, distance;

    // take first point's coordinates

    printf("Enter coordinates of first point: ");

    scanf("%d %d",&x1, &y1);

    // take second point's coordinates

    printf("Enter coordinates of second point: ");

    scanf("%d %d",&x2, &y2);

    x = (x2-x1);

    y = (y2-y1);

    distance = sqrt(x*x + y*y);

    // display result

    printf("Distance = %d", distance);

    return 0;

```

### **3) to read floating values and determine if its possible to make a triangle also calculating the perimeter of the triangle**

```

#include <stdio.h>

int main() {

    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..!");
}
}

```

**4) to read the age of 20 people and count total baby age, school age and adult age.**

```

#include <stdio.h>

{

    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 <=4)
            Cnt_baby ++;

        Else if (age > 5 && 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 o;

```

### **5) to read random numbers and ask a user to guess it from 0-100**

```

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

int main()

{

    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 atttempt finished, BAD LUCK !!!\n");  
  
    break;  
  
}  
  
}  
  
  
return 0;  
  
}
```