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18/ENG04/024

ELECT-ELECT

**QUESTION 1**

1. Write a C program to convert 1343 days into years, weeks and days (Note: Ignore leap year)

#include <stdio.h>

int main(){

int a ,b ;

a=1343;

b=365;

int years=a/b;

int c=a%b;

int weeks= c/7;

int days=c%7;

printf("%d days amounts to %d years %d weeks %d days", a,years,weeks,days );

}

**QUESTION 2**

2. Write a C program to calculate the distance between the two points. Note: x1, y1, x2, y2 are all double values.

#include <stdio.h>

#include <math.h>>

int main(){

double x1, x2 ,y1, y2;

int x, y;

float distance;

printf("enter x1");

scanf("%f", &x1 );

printf("\nenter x2 ");

scanf("%f", &x2);

printf("\nenter y1 ");

scanf("%f", &y1);

printf("\nenter y2 ");

scanf("%f", &y2);

x=x2-x1;

y=x2-x1;

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

printf("distance:%.2f",distance);

return 0;

}

**QUESTION 3**

3. Write a C program that reads three floating values and check if it is possible to make a triangle with them. Also, calculate the perimeter of the triangle if the said values are valid.

#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("can't create a triangle!");

 }

**}**

**QUESTION 4**

#include <stdio.h>

int main()

{

 int age;

 int baby=0, school=0,adult=0;

 int count=0;

 while(count<20)

 {

 printf("Enter age of person [%d]: ",count+1);

 scanf("%d",&age);

 if(age>=0 && age<=4)

 baby++;

 else if(age>=5 && age<=17)

 school++;

 else

 adult++;

 count++;

 }

 printf("Baby age: %d\n",baby);

 printf("School age: %d\n",school);

 printf("Adult age: %d\n",adult);

 return 0;

}

 **QUESTION 5**

#include <stdio.h>

#include <stdlib.h>

#include <time.h>

int main()

{

 int random\_No=0,count=0,num;

 int stime;

 long ltime;

 ltime = time(NULL);

 stime = (unsigned) ltime/2;

 srand(stime);

 random\_No=rand()%100;

 while(1)

 {

 count+=1;

 printf("\n\nGuess a number from (0 to 100): ");

 scanf("%d",&num);

 if(random\_No==num){

 printf("Congrats, you guessed the correct number.");

 break;

 }

 else if(random\_No>num){

 printf("number is greater than entered number, try again...");

 }

 else if(random\_No<num){

 printf("number is less than entered number, try again...");

 }

 if(count==7){

 printf("\n\n### Maximum limit of atttempt finished, BAD LUCK !!!\n");

 break;

 }

 }

 return 0;

}