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18/ENG04/018

ELECT/ELECT ENGINEERING

COMPUTER PROGRAMMING

1. #include<stdio.h>

#include<conio.h>

void main( )

{

int days ,yr,mn,wk,d;

printf("Enter the no of days");

scanf("%d",&days);

yr = days /365;

mn =(days /365)/30;

printf("Years= %d \t Months= %d \t Weeks =%d \t days = %d",yr,mn,wk,d);

// converts days to years, weeks and months

getch();

}

2).

#include <stdio.h>

#include <math.h>

int main() {

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;

}

3).

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)

#include <stdio.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<=4)

cnt\_baby++;

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

cnt\_school++;

**else**

cnt\_adult++;

// increasing the number of years by 1

count++;

}

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

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

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

**return** 0;

}

5)

#include <stdio.h>

#include <stdlib.h>

#include <time.h>

int main()

{

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

int shorttime;

long longtime;

longtime = time(NULL);

shorttime = (unsigned) ltime/2;

srand(shorttime);

//generates random number

random\_genNo=rand()%100;

//run infinite loop

while(1)

{

//increase counter

count+=1;

//read number from user

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

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\nMaximum limit of atttempt finished, GAME OVER FOR YOU!\n");

break;

}

}

return 0;

}