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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;

}