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181ENG0310AS

CIVIL ENGINEERING

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

```
int main ( )
```

```
{
```

```
int Nodays, years, weeks, days;
```

```
printf ("Enter total days\n");
```

```
scanf ("%d", &Nodays);
```

```
years = Nodays / 365;
```

```
weeks = (Nodays / 365) / 7;
```

```
days = (Nodays / 365) % 7;
```

```
printf ("%d years, %d weeks, %d days\n", Nodays, years, weeks, days);
```

```
return 0;
```

```
}
```

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

```
#include <math.h>
```

```
int main ( )
```

```
{
```

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

```
printf ("Enter the value for point x1:");
```

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

```
printf ("Enter the value for point y1:");
```

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

```
printf ("Enter the value for point x2:");
```

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

```
printf ("Enter the value for point y2:");
```

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

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

```
printf("The distance between the point: %.4f", sqrt(dest));
```

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

```
return 0;
```

```
}
```

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

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

```
int main()
```

```
{
```

```
float x, y, z, s
```

```
printf("Enter the first number:");
```

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

```
printf("Enter the second number:");
```

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

```
printf("Enter the third number:");
```

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

```
if (x < (y+z) && y < (x+z) && z < (y+x))
```

```
{
```

```
s = x + y + z;
```

```
printf("Perimeter = %.1f\n",
```

```
};
```

```
else
```

```
{
```

```
printf("cant create triangle...");
```

```
};
```

```
}
```

```

A #include <stdio.h>
#include <stdlib.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++;

        //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;
}

```

```

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

int main (c)
{
    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() % 100;
    // run infinite loop
    while (1)
    {
        // increase counter
        count += 1;
        // read number from user
        printf ("In/In Guess a number from (0 to 100): ");
        scanf ("%d", &num);
        // compare entered number with generated number
        if (random_genNO == num) {
            printf ("congrats, you've guessed correctly.");
            break;
        }
        else if (random_genNO < num) {
            printf ("generated number less than entered number, try again.");
        }
        else if (random_genNO > num) {
            printf ("generated number greater than entered number, try again.");
        }
        if (count == 12) {
            printf ("In/In ### maximum limit of attempts exceeded, oops\n");
        }
    }
}

```

```
break;
```

```
}
```

```
return 0;
```

```
}
```