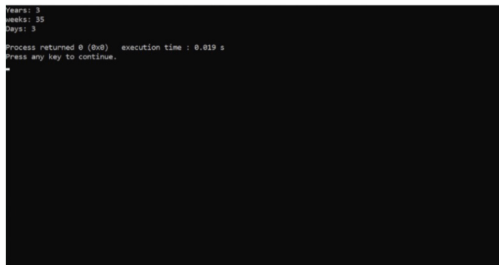




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```
1).  
#include<stdio.h>  
#include<stdlib.h>  
  
void main()  
{  
    int days ,yr,mn,wk,d;  
    printf("Enter the no of days");  
    scanf("%d",&days);  
  
    yr = days /365;  
  
    mn =(days /365)/30;  
  
    printf("Years= %d \t Months= %d \t Weeks =%d \t days = %d",yr,mn,wk,d);  
    // converts days to years, weeks and months  
    getch();  
}
```



```
years: 3  
weeks: 35  
days: 3  
Process returned 0 (0x0)   execution time : 0.019 s  
Press any key to continue.
```

```
2).  
#include <stdio.h>  
#include <stdlib.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;
}

```

```

Input x1: 54
Input y1: 90
Input x2: 32
Input y2: 67
?
Distance between the said points: 90.9348
Process returned 0 (0x0)   execution time : 0.382 s
Press any key to continue.

```

3).

```

#include <stdio.h>
#include <stdlib.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..!");
}
}

```



```
Input the first number: 5
Input the second number: 3
Input the third number: 7
Perimeter = 15.0
Process returned 0 (0x0)   execution time : 22.624 s
Press any key to continue.
```

4)

```
#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<15)
{
    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;
}
```

```

Enter age of person [1]: 3
Enter age of person [2]: 0
Enter age of person [3]: 1
Enter age of person [4]: 2
Enter age of person [5]: 8
Enter age of person [6]: 5
Enter age of person [7]: 10
Enter age of person [8]: 44
Enter age of person [9]: 98
Enter age of person [10]: 100
Enter age of person [11]: 76
Enter age of person [12]: 43
Enter age of person [13]: 89
Enter age of person [14]: 34
Enter age of person [15]: 43
Baby age: 4
School age: 3
Adult age: 8

Process returned 0 (0x0)   execution time : 28.828 s
Press any key to continue.

```

5)

```

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

```

int main()

{

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

int shorttime;

long longtime;

//initialize srand with current time, to get random number on every run

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",&amp;num);



```
printf("Please guess 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 again...");  
}  
else if(random_genNo>num){  
    printf("Generated number is greater than entered number, try again...");  
}  
  
if(count==7){  
    printf("\n\nMaximum limit of attempt finished, BAD LUCK!!!\n");  
    break;  
}  
}  
return 0;  
}
```

```
Guess a number from (0 to 100):67  
Generated number is less entered number, try again...  
  
Guess a number from (0 to 100):100  
Generated number is less entered number, try again...  
  
Guess a number from (0 to 100):56  
Generated number is less entered number, try again...  
  
Guess a number from (0 to 100):23  
Generated number is less entered number, try again...  
  
Guess a number from (0 to 100):10  
Generated number is less entered number, try again...  
  
Guess a number from (0 to 100):1  
Generated number is greater than entered number, try again ....  
  
Guess a number from (0 to 100):0  
Generated number is greater than entered number, try again ....  
  
### Maximum limit of attempt finished, BAD LUCK !!!  
  
Process returned 0 (0x0)   execution time : 16.615 s  
Press any key to continue.
```

