

CppDroid

project_apr27a.cpp



project_apr27a.cpp

Datonye c programming .h

Navigator

Editor

```
1 #include <stdio.h>
2 #include <stdlib.h>
3
4 int main()
5 {
6     int days, years, weeks;
7     days = 1343;
8     // Converts days to years, weeks and days
9     years = days/365;
10    weeks = (days % 365) /7;
11    days = days-((years*365)+(weeks*7));
12
13    printf("years: %d\n", years);
14    printf("weeks: %d\n", weeks);
15    printf("days: %d\n", days);
16 }
```

Diagnostics

Analysis



Line Col Message

← **CppDroid terminal**
Stopped

```
years: 3  
weeks: 35  
days: 3  
█
```

ISOFAIARI DATONVE 18/ENG06/019

Question 1

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

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

```
int main()
```

```
{
```

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

```
days = 1343
```

```
// converts days to years, weeks and days
```

```
years = days / 365;
```

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

```
days = days - ((years * 365) + (weeks * 7));
```

```
printf ("Years: %d\n", years);
```

```
printf ("Weeks: %d\n", weeks);
```

```
printf ("Days: %d\n", days);
```

```
}
```

CppDroid

project 2.cpp



project 2.cpp

Datonye c programming .h



Navigator

Editor

```
1 #include <stdio.h>
2
3
4 int main() {
5     float x1, y1, x2, y2, gdistance;
6     printf("input x1: ");
7     scanf("%f" ,&x1);
8     printf("input y1: ");
9     scanf("%f" ,&y1);
10    printf("input x2: ");
11    scanf("%f" ,&x2);
12    printf("input y2: ");
13    scanf("%f" ,&y2);
14    gdistance = (((x2-x1)*(x2-x1))+((y2-y1)*(y2-
15    y1)));
16    printf("Distance between said points: %.4f",
17    (gdistance));
18    printf("\n");
19    return 0;
20 }
```

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Diagnostics

Analysis  

Line Col Message

← **CppDroid terminal**
Stopped

```
input x1: 56  
input y1: 78  
input x2: 12  
input y2: 90  
Distance between said points: 2080.0000
```

Question 2

```
#include <stdio.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 said points: %.4f", (gdistance));
```

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

```
return 0;
```

```
}
```

CppDroid

project 3.cpp



project 3.cpp

Datonye c programming .h


Navigator

Editor

```
1 #include <stdio.h>
2 #include <stdlib.h>
3
4 int main() {
5     float x, y, z, P, A;
6     printf("\ninput the first number: ");
7     scanf("%f" ,&x);
8     printf("\ninput the second number: ");
9     scanf("%f" ,&y);
10    printf("\ninput the third number: ");
11    scanf("%f" ,&z);
12
13    if(x < (y+z) && y < (x+z) && z < (y+x))
14    {
15        P = x+y+z;
16        printf("\nPerimeter = %ff\n", P);
17
18    }
19    else;
20 }
21
```

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Diagnostics

Analysis  

Line Col Message

 5 23 unused variable 'A'

← **CppDroid terminal**
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```
input the first number: 2
```

```
input the second number: 4
```

```
input the third number: 3
```

```
Perimeter = 9.000000f
```


Question 3

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

```
int main () {
    float x, y, z, p, A;
    printf ("Input the first number: ");
    scanf ("%f", &x);
    printf ("Input the second number: ");
    scanf ("%f", &y);
    printf ("Input the third number: ");
    scanf ("%f", &z);
```

```
    if (x < (y+z) && y < (x+z) && z < (y+x) )
    {
        p = x+y+z;
        printf ("Perimeter = %.1f\n", p);
    }
    else;
}
```

CppDroid

project 3.cpp



project 3.cpp

Datonye c programming .h

Navigator

Editor

```
1 #include <stdio.h>
2
3
4 int main()
5 {
6     int age;
7     int cnt_baby=0, cnt_school=0, cnt_adult=0;
8     int count=0;
9
10    while(count<15)
11    {
12        printf("enter age of person [%d]:
13        ", count+1);
14        scanf("%d" , &age);
15
16        if(age>0 && age<4)
17            cnt_baby++;
18        else if(age>5 && age<17)
19            cnt_school++;
20        else
21            cnt_adult++;
22        //increase counter
23        count++;
24    }
25    printf("baby age: %d\n", cnt_baby);
26    printf("school age:%d\n", cnt_school);
27    printf("adult age:%d\n", cnt_adult);
28    return 0;
29 }
```

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Diagnostics

Analysis ^

← **CppDroid terminal**
Stopped

```
enter age of person [1]: 5
enter age of person [2]: 80
enter age of person [3]: 17
enter age of person [4]: 12
enter age of person [5]: 45
enter age of person [6]: 56
enter age of person [7]: 3
enter age of person [8]: 2
enter age of person [9]: 78
enter age of person [10]: 45
enter age of person [11]: 71
enter age of person [12]: 32
enter age of person [13]: 29
enter age of person [14]: 15
enter age of person [15]: 16
baby age: 2
school age:3
adult age:10
```

Question 4

```
# include <stdio.h>

int main()
{
    int age;
    int cnt_baby=0, cnt_school=0, cnt_adult=0;
    int count=0;

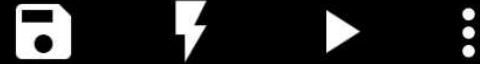
    while (count < 15)
    {
        printf ("Enter age of person [%d]: ", count + 1);
        scanf ("%d", &age);

        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;
}
```

CppDroid

project5.cpp



project5.cpp

Datonye c programming .h

Navigator


Editor

```
1 #include <stdio.h>
2 #include <stdlib.h>
3
4
5 int main()
6 {
7     int random_genNo=0, count=0, num;
8     int stime;
9     long ltime;
10    //initialise srand with current time, to get
    random number on every run
11    ltime = (0);
12    stime = (unsigned) ltime/2;
13    srand(stime);
14    //generate random number
15    random_genNo = rand()%100;
16    //run infinite loop
17    while(1)
18    {
19        //increase counter
20        count+=1;
21        //read number from user
22        printf("\n\nGuess a number from (0 to
    100):");
23        scanf("%d",&num);
24        if(random_genNo==num){
25            printf("congratulations,you have
    guessed a correct value.");break;
26        }
27
```

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Diagnostics

Analysis  

Navigator

Editor

```
19
20     count+=1;
21     //read number from user
22     printf("\n\nGuess a number from (0 to
100):");
23     scanf("%d",&num);
24     if(random_genNo==num){
25         printf("congratulations,you have
guessed a correct value.");break;
26     }
27
28     else if (random_genNo<num){
29         printf("generated number is less than
entered number, try again...");
30     }
31     else if (random_genNo>num){
32         printf("generated number is greater
than entered number, try again...");
33     }
34     if(count==7){
35         printf("\n\n### Maximum limit of
attempt finished, Bad luck !!!\n");break;
36     }
37 }
38 }
39
40
41
42
43
44
```

← **CppDroid terminal**
Stopped

```
Guess a number from (0 to 100):56  
generated number is less than entered number, try  
again...
```

```
Guess a number from (0 to 100):6  
generated number is greater than entered number,  
try again...
```

```
Guess a number from (0 to 100):78  
generated number is less than entered number, try  
again...
```

```
Guess a number from (0 to 100):56  
generated number is less than entered number, try  
again...
```

```
Guess a number from (0 to 100):6  
generated number is greater than entered number,  
try again...
```

```
Guess a number from (0 to 100):78  
generated number is less than entered number, try  
again...
```

```
Guess a number from (0 to 100):67  
generated number is less than entered number, try  
again...
```

```
### Maximum limit of attempt finished, Bad luck !  
!!
```

Question 5

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

```
int main ()
{
```

```
    int random_genNo=0, count=0, num;
    int stime;
    long time;
```

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

```
    time = (0);
```

```
    stime = (unsigned) (time / 2);
```

```
    srand (stime);
```

```
    // generate random number
```

```
    random_genNo = rand() % 100;
```

```
    // an infinite loop
```

```
    while (1)
```

```
    {
```

```
        // increase counter
```

```
        count = 1;
```

```
        // read number from user
```

```
        printf ("%d\n", count, "number from (0 to 100):");
```

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

```
        if (random_genNo == num) {
```

```
            printf ("congratulations, you have guessed a correct value.");
```

```
            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 == T) {
    printf("%n # Maximum limit of attempt finished,
    %s", "n", "n");
}
}
```