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### Question 1

1

```
#include <stdio.h>
#include <stdlib.h>
int main()
{
    int days, years, weeks;
    printf("Enter number of days: ");
    scanf("%d", &days);
    years = (days / 365);
    weeks = ((days - (years * 365)) / 7);
    days = days - (years * 365) + (weeks * 7);
    printf("YEARS: %d\n", years);
    printf("DAYS: %d\n", days);
}
```

### Question 2

2

```
#include <stdio.h>
#include <stdlib.h>
int main() {
    float x1, y1, x2, y2, distance;
    printf("Input x1: ");
    scanf("%f", &x1);
    printf("Input y1: ");
    scanf("%f", &y1);
    printf("Input x2: ");
    scanf("%f", &x2);
    printf("Input y2: ");
    scanf("%f", &y2);
    distance = ((x2 - x1) * (x2 - x1)) + ((y2 - y1) * (y2 - y1));
}
```

```
printf ("Distance between the said points : %4f",  
sqrt (distance));  
printf ("\n");  
return 0;
```

3

### Question 3

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

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

```
int main ()
```

```
{
```

```
float a, b, c, perimete;
```

```
printf ("Enter first side: ");
```

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

```
printf ("Enter second side: ");
```

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

```
printf ("Enter third side: ");
```

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

```
if ((a+b) > c && (a+c) > b && (b+c) > a) {
```

```
printf ("A triangle can be formed");
```

```
perimete = a + b + c
```

```
printf ("Perimete is %0.2f", perimete);
```

```
} else
```

```
printf ("triangle cannot be formed");
```

4

### Question 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 <= 1)
```

```
    cnt_baby ++;
else if (age >= 5 && age <= 17)
    cnt_school ++;
```

```
else
    cnt_adult ++;
    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 Question 5

```
#include <stdio.h>
#include <stdlib.h>
#include <time.h>
int main()
{
    int random_gen No = 0, count = 0, num;
    int stime;
    long ltime;
    ltime = time (NULL);
    stime = (unsigned) ltime % 12;
    srand (stime);
    random_gen No = rand () % 100;
    write (1)
}
```

```

    count += 1;
    printf("In In Guess a number from 00 to 1000: ");
    scanf("%d", &num);
    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("In In GENERATED NUMBER IS %d\n", random_genNo);
        printf("In In Maximum limit of attempt finished, BAD LUCK !!!\n");
        break;
    }
}
return 0;
}

```