

NWEKE UCHE MICHAEL

CIVIL ENGINEERING

18/ENG03/056

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>
```

```
intmain() {
```

```
    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).

```

intmain() {
    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++;
        elseif(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>
```

```
intmain()
```

```
{
```

```
intrandom_genNo=0,count=0,num;
```

```
intshorttime;
```

```
    long longtime;
```

```
    longtime = time(NULL);
```

```
shorttime = (unsigned) longtime/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\nMaximumlimit of attempt finished, GAME OVER FOR YOU!\n");
    break;
}
}

return 0;
}
```

