```
2020年10月23日
 S_{17} \chi = \chi - \frac{\chi}{5!} + \frac{\chi}{5!} + \dots + (4)^{n-1} \frac{\chi_{n-1}}{\chi_{n-1}}
        #define EPSILON 10e-9
        int fact(int k){
             If (k==0){
                  Return 1;
                  Return fact((k-1)*k);
             }
        Int Result = 1
        Int N=1
        While((pow(x,n) / fact(n)) > EPSILON){
              Result+= pow(x,n) / fact(n);
              N+=1;
  2.sprintf("% 6.uf t 18.81f t % losif t % pisfin", X, result, ex, ex-x)
  Pre-lab Part2
    1. getopt() returns the each argument passing into the function
    2. enum is a better choice since there are more than 2 options like
       sin, cos, tan, and exp
        # define option "s: C:t; e: a:"
       int main ( int arge, char **kargv) }
             int c = b:
             enum opt-list { Sin=1, Cos, tan, exp, all}
            while CC C= getope (arga arg v, opeion)) != -1) {
                 Swith (c) 9
                     case 'S':
                          opc = Sin:
                         break :
                    ase c'i
                          opt = cos;
```

1 . 1 .

```
opt = cos;

break;

cose 't':

opt = ton;

break;

cose 'e': ;

opt = exp

breck;

cose 'a'

opt = all;

breck;

3

return o;

3
```