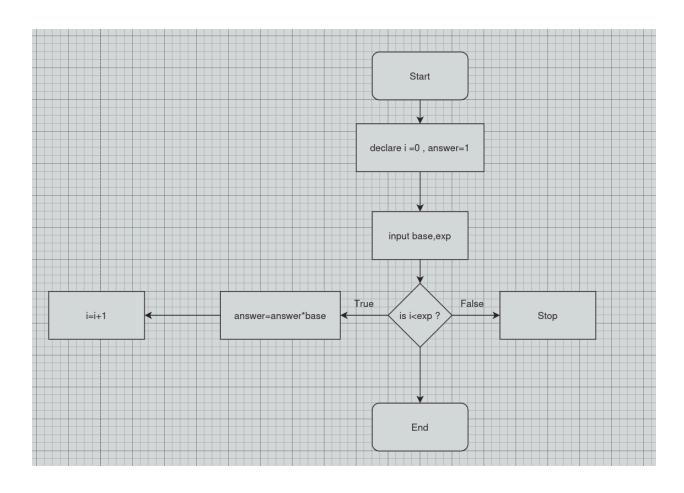
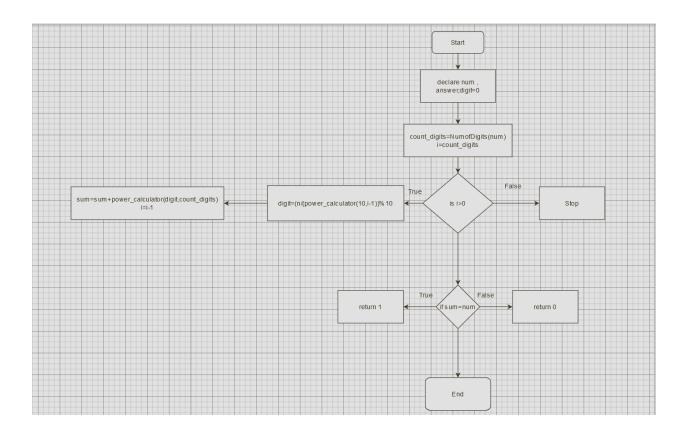


```
//question 1 part b
#include <math.h>
int NumofDigits(int n)
{
   int answer;
   answer=log10(n)+1;// i use logarithm from math built-in lib
   // log10 +1 a number is mathematically return digits count
   return answer;
}
```



```
//question 2 part b
int PowerCalculator(int base,int exp)
{
   int answer =1;
   for (int i=0 ; i<exp ; i++)
   {
      answer *=base;
   }
   return answer ;
}</pre>
```



```
// question 3 part b
#include <math.h>
int isArmstrong(int n)
{
   int digit , exponant;
   int digits_count=log10(n)+1;// using logarithem function
   int sum=0;
   for(int i =digits_count ; i>0 ; i--)
   {
      digit =0;
      exponant = i -1;
      digit=(int)(n/(pow(10,exponant)))%10; // using pow function
      sum+=(pow(digit,digits_count));
   }
   if (n== sum) return 1;
   else return 0;
}
```

```
int factoriel(int n )
  int answer=1 ;
      answer*=i ;
  return answer;
int choose(int n , int k )
int NumberofWays(int n )
  if (n<2) return 1;
  int answer= 0;
  int coef 2=1;
          answer = answer + choose(n-coef_2,coef_2);
  return answer +1;// the reason for +1 is, all jump 1
```