DAY 3-30/03/2022

1.Collection of pens

```
bool check (int n)
{
    if(n==1)
    {
        return false;
    }
    for(int i=2;i<n;i++)
    {
        if(n%i==0)
        {
            return false;
        }
    }
    return true;
}
    int minThirdPiles(int A, int B)
    {
        int sum;
```

```cpp
    for(int i=1;i<=10000;i++)
    {
      sum=A+B+i;
      if(check(sum)==true)
      {
        return i;
      }
    }
  }
```

2. FIBONACCI NUMBER

```cpp
class Solution
{
public:
  int fib(int n)
  {
    if(n <= 1)
      return n;
      return fib(n - 1) + fib(n - 2);
  }
};
```

3. GCD AND FIBONACCI NUMBER

```cpp
#include <iostream>
int main() {
 int a, b, gcd;
 cin >> a >> b;
 if ( a > b)
 {
  int temp = a;
  a = b;
  b = temp;
 }

 for (int i = 1; i <=  b; i++)
{
  if (a % i == 0 && b % i ==0)
  {
   gcd = i;
  }
 }
 return gcd;
```

```c
    }
```

4.LAST NON-ZERO DIGIT IN FACTORIAL

```c
#include<stdio.h>

int lastNon0Digit(int n)

{

   int fact=1;

   for(int i=1;i<=n;i++)

   {

     fact=fact*i;

     while(fact%10==0)

     {

       fact=(fact/10)%10;

     }

   }

   return fact;


}
```

```c
int main() {
    int t;
    scanf("%d",&t);
    while(t--)
    {
        int n;
        scanf("%d",&n);
        printf("%d \n",lastNon0Digit(n));
    }
    return 0;
}
```