(1.)
```
int main ( ) {
    int prev =1 , cur =1, n , next =0 ;
    scanf ("%d", &n ) ;
    printf (" %d %d ", prev, cur );
    for ( int i= 2 ; i<n ; i++) {
        next = prev+ cur ;
        prev = cur ;
        cur = next ;
    }
    printf (" Your number is %d", cur );
    return 0 ;
}
```

(2.)
```
int main ( ) {
    int prev =0 , cur =1, n , next = 0 ;
    scanf (" %d", &n ) ;
    printf (" %d ", prev ) ;
    for ( int i=0 ; i<n-1 ; i++) {
        next = prev +cur ;
        printf (" %d ", next ) ;
        prev = cur ;
        cur = next ;
    }
    return 0 ;
}
```

(3.)
```
int main ( ) {
    int prev =0 , cur =1, n, m, next =0 ;
    scanf (" %d", &n ) ;
    scanf (" %d", &m ) ;
    for ( int i =0 ; i<n-1 ; i++) {
        next = prev +cur ;
        if ( m == next ) {
            printf (" found %d ", m ) ;
            break ;
        }
```

```
        prev = cur ;
        next cur = next ;
    }
    return 0 ;
}
```

(4.)
```
int main ( ) {
    int a , b, min, hcf , i ;
    min = a < b ? a : b ;
    scanf (" %d %d ", &a , &b ) ;
    for ( i =1 ; i<= min ; i++ ) {
        if ((a % i ==0) && ( b % i ==0))
            hcf = i ;
    }
    printf (" HCF is %d ", hcf ) ;
    return 0 ;
}
```

(5.)
```
int main ( ) {
    int a = 2 , b =3, hcf , i ;
    for ( i =1 ; i<= a ; i++) {
        if ((a % i ==0) && ( b % i ==0))
            hcf = i ;
    }
    { if (hcf == 1)
        printf (" Co-prime ") ;
    else
        printf (" not co-prime ") ;
    return 0 ;
}
```

```c
6.)  int main () {
     int i, n, flag=0;
     for(n=1; n<=100; n++){
         flag= 0;
         for(i=2; i<= n/2; i++){
             if (n % i == 0)
                 flag=1;
         }
         if (flag == 0)
             printf("%d", n);
     }
     return 0;
}
```

```c
7.)  int main () {
     int a, b, i, n, flag=0;
     scanf("%d %d", &a, &b);
     for(n=a; n<=b; n++) {
         flag= 0;
         for(i=2; i<= n/2; i++){
             if (n % i ==0)
                 flag=1;
         }
         if (flag == 0)
             printf("%d", n);
     }
     return 0;
```

```c
     int main () {
     int a, i, n, flag=0;
     scanf("%d", &a);
     for(n=a; n <= a/2; n++) {
         flag= 0;
         for(i=2; i<= n/2; i++){
             if (n % i == 0)
                 flag= 1
         }
     }
```

```c
     if (flag == 0) {
         printf("%d", n)
         break;
     }
}
     return 0;
}
```

```c
9.)  int main () {
     int i, rem, a=153, sum=0; int n=a
     do {
         rem = a % 10;
         a= a/10;
         sum += (rem * rem * rem);
     } while (a != 0);
     if (sum == n)
         printf("%d", n);
     return 0;
}
```

```c
10.)  int main () {
      int i, rem, a, n, sum=0
      for(i=0; i<=1000; i++) {
          a = i;
          n = a; sum = 0;
          do {
              rem = a % 10;
              a = a/10;
              sum = sum + (rem * rem * rem);
          } while (a != 0)
          if (sum == n)
              printf("%d", n);
      }
      return 0;
}
```