```
folder > C gcd.c > 1 hcf(int, int)
       #include <stdio.h>
       int hcf(int n1, int n2);
       int main() {
           int n1, n2;
           printf("Enter two positive integers= ");
           scanf("%d %d", &n1, &n2);
           printf("G.C.D of %d and %d is %d.", n1, n2, hcf(n1, n2));
  8
           return 0:
  9
  10
  11
       int hcf(int n1, int n2) {
            if (n2 != 0)
  12
                return hcf(n2, n1 % n2);
  13
            else
  14
                return n1;
  15
  16
```

```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

PS D:\software\vs code\folder> cd "d:\software\vs code\folder\"; if ($?) { gcc gcd.c

Enter two positive integers= 45 23

G.C.D of 45 and 23 is 1.

PS D:\software\vs code\folder>
```

```
folder > C recprime.c > D primeno(int, int)
       #include <stdio.h>
       int primeno(int, int);
  2
       int main()
  4
           int num, check;
           printf("Enter a number: ");
           scanf("%d", &num);
           check = primeno(num, num / 2);
  8
  9
           if (check == 1)
 10
 11
               printf("%d is a prime number\n", num);
 12
 13
           else
 14
 15
               printf("%d is not a prime number\n", num);
 16
 17
           return 0;
 18
       int primeno(int num, int i)
 19
       {
 20
           if (i == 1)
 21
 22
 23
               return 1;
 24
           else
 25
 26
 27
              if (num % i == 0)
 28
 29
                return 0;
 30
              else
 32
                return primeno(num, i - 1);
 34
 35
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

PS D:\software\vs code\folder> cd "d:\software\vs cod Enter a number: 56 56 is not a prime number PS D:\software\vs code\folder>

```
#include <stdio.h>
      int isEven(int num)
          return !(num & 1);
     int main()
 8
 9
          int num;
10
         printf("Enter any number: ");
11
          scanf("%d", &num);
12
          if(isEven(num))
13
14
              printf("The number is even.");
15
16
         else
17
18
             printf("The number is odd.");
19
20
         return 0;
21
```

```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

PS D:\software\vs code\folder> cd "d:\software\vs code\folder\"; if

Enter any number: 56

The number is even. I

PS D:\software\vs code\folder>
```

```
#include<stdio.h>
      void swap(int *,int *);
 2
      int main()
 4
 5
          int n1,n2;
          printf("Input 1st number : ");
 6
          scanf("%d",&n1);
          printf("Input 2nd number : ");
 8
          scanf("%d",&n2);
 9
          printf("Before swapping: n1 = %d, n2 = %d ",n1,n2);
10
          swap(&n1,&n2);
11
          printf("\nAfter swapping: n1 = %d, n2 = %d \n\n",n1,n2);
12
          return 0;
13
14
      void swap(int *p,int *q)
15
16
          int tmp;
17
          tmp = *p;
18
           *p=*q;
19
           *q=tmp;
20
21
                                   TERMINAL
                   DEBUG CONSOLE
           OUTPUT
PROBLEMS
PS D:\software\vs code\folder> cd "d:\software\vs code\folder\"; if ($?) { gcc si
```

folder > 🧲 swap.c > 😚 main()

```
PS D:\software\vs code\folder> cd "d:\software\vs code\folder\"; if ($?) { gcc strong from the strong from the
```

```
folder > 📞 lagelement.c > 😭 findMaxElem(int [])
       #include<stdio.h>
       #define MAX 100
       int findMaxElem(int []);
  3
       int n;
  4
       int main()
  6
           int arr1[MAX],mxelem,i;
  8
              printf(" Input the number of elements to be stored in the array :");
              scanf("%d",&n);
 10
              printf(" Input %d elements in the array :\n",n);
 11
              for(i=0;i<n;i++)
 12
 13
                 printf(" element - %d : ",i);
 14
                 scanf("%d",&arr1[i]);
 15
           mxelem=findMaxElem(arr1);
 16
           printf(" The largest element in the array is : %d\n\n", mxelem);
 17
 18
           return 0:
 19
       int findMaxElem(int arr1[])
 20
       1
 21
 22
           int i=1,mxelem;
 23
           mxelem=arr1[0];
 24
           while(i<n)
 26
             if(mxelem<arr1[i])
                  mxelem=arr1[i];
  28
             1++;
  29
  30
           return mxelem;
  31
```