#Program 1

```
C q_1.c > ۞ main()
      #include<stdio.h>
  2 vint main()
          printf("Enter the values of num1 and num2\n");
          int a,b;
          scanf("%d%d",&a,&b);
          printf("Initially num1 = %d and num2 = %d\n",a,b);
          a=a+b;
          b=a-b;
          a=a-b;
          printf("After swapping num1 = %d and num2 = %d",a,b);
      return 0;
PROBLEMS
          OUTPUT
TERMINAL
3 5
Initially num1 = 3 and num2 = 5
After swapping num1 = 5 and num2 = 3
D:\Documents_D_Drive\NIT study\Programs\Assignment_2>cd "d:\Documer
" && gcc q_1.c -o q_1 && "d:\Documents_D_Drive\NIT study\Programs\A
Enter the values of num1 and num2
Initially num1 = 5 and num2 = 6
After swapping num1 = 6 and num2 = 5
D:\Documents_D_Drive\NIT study\Programs\Assignment_2>
```

Subproblem a

```
#include<stdio.h>
                         int main()
                                          int a;
                                          scanf("%d",&a);
                                          if(a%2==0) printf("The given number:%d is even",a);
                                          if(a%2!=0) printf("The given number:%d is odd",a);
                         return 0;
        9
 PROBLEMS
                                          OUTPUT
TERMINAL
Microsoft Windows [Version 10.0.19041.985]
(c) Microsoft Corporation. All rights reserved.
D:\Documents_D_Drive\NIT study\Programs\Assignment_2>cd "d:\Documents_D_Drive\NIT study\Programs\Assignment_2>cd "d:\Documents_DRIVE\Programs\Assignment_2>cd "d:\Documents_DRIVE\Programs\Assignment_2>cd "d:\Documents_DRIVE\Programs\Assignment_2>cd "d:\Documents_DRIVE\Programs\Assignment_2>cd "d:\Documents_DRIVE\Programs\Assignment_2>c
 " && gcc q_2_a.c -o q_2_a && "d:\Documents_D_Drive\NIT study\Prog
The given number:8 is even
D:\Documents_D_Drive\NIT study\Programs\Assignment_2>cd "d:\Docume
 " && gcc q_2_a.c -o q_2_a && "d:\Documents_D_Drive\NIT study\Prog
The given number:9 is odd
D:\Documents_D_Drive\NIT study\Programs\Assignment_2>
```

```
Subproblem b
      #include<stdio.h>
      int main()
          int a;
          scanf("%d",&a);
 6
          if(a%2==0) printf("The given number:%d is even",a);
          else printf("The given number:%d is odd",a);
      return 0;
PROBLEMS
          OUTPUT
TERMINAL
D:\Documents_D_Drive\NIT study\Programs\Assignment_2>cd "d:\Doc
" && gcc q_2_b.c -o q_2_b && "d:\Documents_D_Drive\NIT study\Pr
The given number:7 is odd
D:\Documents_D_Drive\NIT study\Programs\Assignment_2>cd "d:\Doc
" && gcc q_2_b.c -o q_2_b && "d:\Documents_D_Drive\NIT study\Pr
The given number:9 is odd
D:\Documents_D_Drive\NIT study\Programs\Assignment_2>cd "d:\Doc
" && gcc q_2_b.c -o q_2_b && "d:\Documents_D_Drive\NIT study\Pr
98
The given number:98 is even
D:\Documents_D_Drive\NIT study\Programs\Assignment_2>
```

#Program 3

SubProblem a

```
#include<stdio.h>
      int main()
          int a,b,c;
          scanf("%d%d%d",&a,&b,&c);
          int greatest;
          if(a>b){
              if(a>=c) greatest=a;
 9
              else greatest=c;
          else{
11
              if(b>=c) greatest=b;
12
13
              else greatest=c;
          printf("The greatest of %d,%d and %d is %d",a,b,c,greatest);
      return 0;
PROBLEMS
          OUTPUT
TERMINAL
D:\Documents_D_Drive\NIT_study\Programs\Assignment_2>cd "d:\Documents_D_[
" && gcc q_3_a.c -o q_3_a && "d:\Documents_D_Drive\NIT study\Programs\Ass
1 2 3
The greatest of 1,2 and 3 is 3
D:\Documents_D_Drive\NIT study\Programs\Assignment_2>
```

SubProblem b

```
#include<stdio.h>
       int main()
            int a,b,c;
            scanf("%d%d%d",&a,&b,&c);
            int greatest;
            if(a>=b && a>=c) greatest=a;
            else if(b>=a && b>=c) greatest=b;
            else greatest=c;
            printf("The greatest on %d,%d and %d is %d",a,b,c,greatest);
        return 0;
 PROBLEMS
∨ TERMINAL
 D:\Documents_D_Drive\NIT study\Programs\Assignment_2>cd "d:\Documents_D_Drive
 " && gcc q_3_b.c -o q_3_b && "d:\Documents_D_Drive\NIT study\Programs\Assignm
 1 2 3
 The greatest on 1,2 and 3 is 3
 D:\Documents_D_Drive\NIT study\Programs\Assignment_2>cd "d:\Documents_D_Drive
 " && gcc q_3_b.c -o q_3_b && "d:\Documents_D_Drive\NIT study\Programs\Assignm
 5 1 1
 The greatest on 5,1 and 1 is 5
 D:\Documents_D_Drive\NIT study\Programs\Assignment_2>
```

```
#include<stdio.h>
  2 \sim \text{void main()}
          printf("Enter the numbers and operation that you want to perform\n");
  5
          int a,b,output,flag=0;
          char c;
           scanf("%d%c%d",&a,&c,&b);
          if(c=='+') output=a+b;
          else if(c=='-') output=a-b;
          else if(c=='*') output=a*b;
          else if(c=='/') output=a/b;
 11
          else {
 12 🗸
               printf("Invalid character\n");
 13
               flag=1;
          if(flag==0) printf("%d %c %d = %d",a,c,b,output);
 17
          return;
PROBLEMS
          OUTPUT
                    DEBUG CONSOLE
TERMINAL
Enter the numbers and operation that you want to perform
4 + 3 = 7
D:\Documents_D_Drive\NIT study\Programs\Assignment_2>
4+3
4 + 3 = 7
D:\Documents_D_Drive\NIT study\Programs\Assignment_2>cd "d:\Docum
" && gcc q_4.c -o q_4 && "d:\Documents_D Drive\NIT study\Programs
Enter the numbers and operation that you want to perform
3-2
3 - 2 = 1
D:\Documents_D_Drive\NIT study\Programs\Assignment_2>cd "d:\Docum
" && gcc q_4.c -o q_4 && "d:\Documents_D_Drive\NIT study\Programs
Enter the numbers and operation that you want to perform
4*5
4 * 5 = 20
D:\Documents_D_Drive\NIT study\Programs\Assignment_2>cd "d:\Docum
" && gcc q_4.c -o q_4 && "d:\Documents_D_Drive\NIT study\Programs
Enter the numbers and operation that you want to perform
50/2
50 / 2 = 25
```