

```
#include<stdio.h>
                                                                                                                             X
                                                              C:\Windows\System32\cmd.exe
                                                                                                                       int calc(int a,int b, char op){
    int result:
                                                             D:\Workspace\NTI Course work\Lec 4\Assignment 4>Q 2.exe
switch(op)
                                                             Enter the equation:3/1
                                                             The result is:3
                                                             D:\Workspace\NTI Course work\Lec 4\Assignment 4>0 2.exe
        case '+':
                                                             Enter the equation:3*7
            result = a + b;
                                                             The result is:21
            break:
                                                             D:\Workspace\NTI Course work\Lec 4\Assignment 4>
        case '-':
            result = a - b:
            break:
        case '*':
            result = a * b:
            break;
        case '/':
            result = a / b;
            break:
    return (result);
int main ()
    int x,y,r;
    char o:
    printf("Enter the equation:");
    scanf("%d%c%d",&x,&o,&y);
    r=calc(x,y,o);
    printf("The result is:%d",r);
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8.

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NTI Course work > Lec 4 > Assignment 4 > C Q 3.c > ...
      #include <stdio.h>
                                                                                    C:\Windows\System32\cmd.exe
      int checkPrimeNumber(int n) {// user-defined function to check prime number
          int j, flag = 1;
                                                                                   D:\Workspace\NTI_Course_work\Lec_4\Assignment_4>Q_3.exe
          for (j = 2; j \le n / 2; ++j) {
                                                                                   Enter two positive integers: 2 50
                                                                                   Prime numbers between 2 and 50 are: 3 5 7 11 13 17 19 23 29 31 37 41 43 47
              if (n \% j == 0) {
                                                                                   D:\Workspace\NTI Course work\Lec 4\Assignment 4>
                  flag = 0;
                  break:
          return flag;
      int main() {
          int n1, n2, i, flag;
          printf("Enter two positive integers: ");
          scanf("%d %d", &n1, &n2);
          printf("Prime numbers between %d and %d are: ", n1, n2);
          for (i = n1 + 1; i < n2; ++i) {
               // flag will be equal to 1 if i is prime
               flag = checkPrimeNumber(i);
               if (flag == 1)
                  printf("%d ", i);
          return 0;
```

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C Q_4.1.c
          ×
                                                                                 C:\Windows\System32\cmd.exe
                                                                                                                                                 NTI_Course_work > Lec_4 > Assignment_4 > C Q_4.1.c >  main()
                                                                                D:\Workspace\NTI Course_work\Lec_4\Assignment_4>Q_4.exe
      #include<stdio.h>
                                                                                Enter a positive intiger2569
      int T Holes(int n);
                                                                                the total # of holes is2
                                                                                D:\Workspace\NTI Course work\Lec 4\Assignment 4>Q 4.exe
      int HoleInNo( int n);
                                                                                Enter a positive intiger5583
      int T Holes(int n);
                                                                                the total # of holes is2
      int main()
                                                                                D:\Workspace\NTI Course work\Lec 4\Assignment 4>Q 4.exe
          int n,r;
                                                                                Enter a positive intiger88888
           printf("Enter a positive intiger");
                                                                                the total # of holes is10
           scanf("%d",&n);
                                                                                D:\Workspace\NTI Course work\Lec 4\Assignment 4>
          r= T Holes(n);
           printf("the total # of holes is%d",r);
 11
 12
 13
      int T Holes(int n)
          int temp,count=0;
          while (n!=0)
               temp=n%10;
 17
           if (temp == 8)
           count += 2;
           else if (temp== 0 || temp== 4 || temp== 6 || temp == 9)
            count++;
               n=n/10;
          return(count);
```

```
NTI_Course_work > Lec_4 > Assignment_4 > C Q_5.c > ...
                                                                                                                                                            C:\Windows\System32\cmd.exe
      #include<stdio.h>
      #include<math.h>
                                                                                     D:\Workspace\NTI Course work\Lec 4\Assignment 4>0 5.exe
                                                                                     Enter a positive intiger8
      int CheckNumber( int n)
                                                                                     the number is of power of 2
                                                                                     D:\Workspace\NTI Course work\Lec 4\Assignment 4>Q 5.exe
                                                                                     Enter a positive intiger25
          int r;
                                                                                     the number is of power of 2
           int s= sqrt(n);
                                                                                     D:\Workspace\NTI Course work\Lec 4\Assignment 4>0 5.exe
           int c = sqrt(n);
                                                                                     Enter a positive intiger27
          if (n \%s == 0)
                                                                                     the number is neither of power of 2 nor power of 3
                                                                                     D:\Workspace\NTI Course work\Lec 4\Assignment 4>Q 5.exe
              r=1;
                                                                                     Enter a positive intiger125
          else if(n% c== 0)
                                                                                     the number is neither of power of 2 nor power of 3
               r=0;
                                                                                     D:\Workspace\NTI Course work\Lec 4\Assignment 4>
           else
                r=-1;
          return("%d",r);
      int main()
           int n,r;
          printf("Enter a positive intiger");
          scanf("%d",&n);
          r= CheckNumber(n);
          if (r==1)
               printf("the number is of power of 2");
          else if (r==0)
               printf("the number is of power of 3");
           else
               printf("the number is neither of power of 2 nor power of 3");
```

```
VTI_Course_work > Lec_4 > Assignment_4 > C Q_6.c > Main()
                                                                                       D:\Workspace\NTI Course work\Lec 4\Assignment 4>gcc 0 6.c -o 0 6.exe
      // C/C++ program for decimal to binary
      // conversion using recursion
                                                                                       D:\Workspace\NTI Course work\Lec 4\Assignment 4>0 6.exe
      #include <stdio.h>
                                                                                       Enter a positive intiger25
      // Decimal to binary conversion
                                                                                        the binary representation is: 11001
                                                                                       D:\Workspace\NTI Course work\Lec 4\Assignment 4>0 6.exe
      int find(int n)
                                                                                       Enter a positive intiger123
          if (n == 0)
                                                                                        the binary representation is: 1111011
              return 0:
                                                                                       D:\Workspace\NTI Course work\Lec 4\Assignment 4>
          else
              return (n \% 2 + 10 *find(n / 2));
      // Driver code
      int main()
          int n,r;
          printf("Enter a positive intiger");
          scanf("%d",&n);
          printf("\n the binary representation is: %d\n", find(n));
          return 0;
```