## National Institute of Technology, Patna



EE lab CSL (2601)

Assignment no 10

Name: Sudhanshu Ranjan

Batch: 2020-2024

Roll no: 2002006

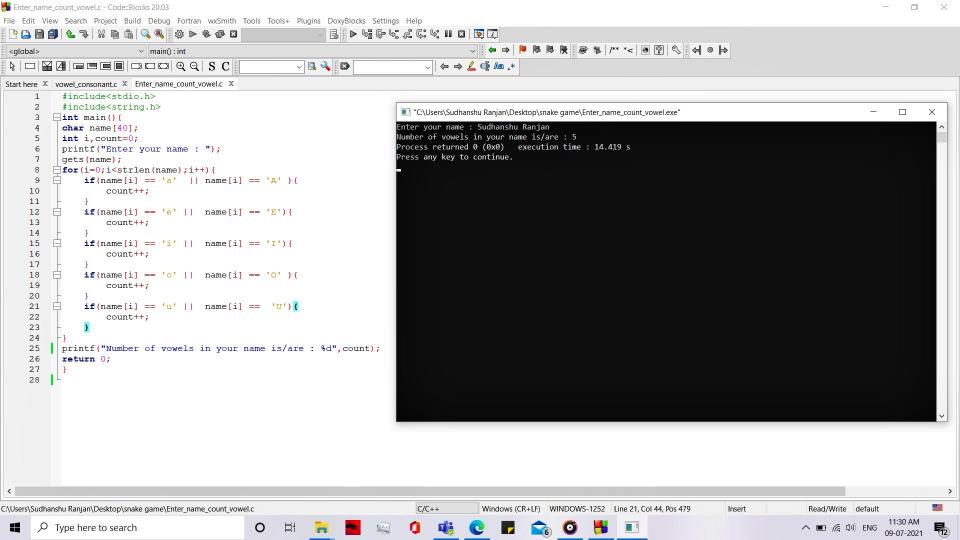
Class: BTECH EE

Instructor: Dr. Neha Mam

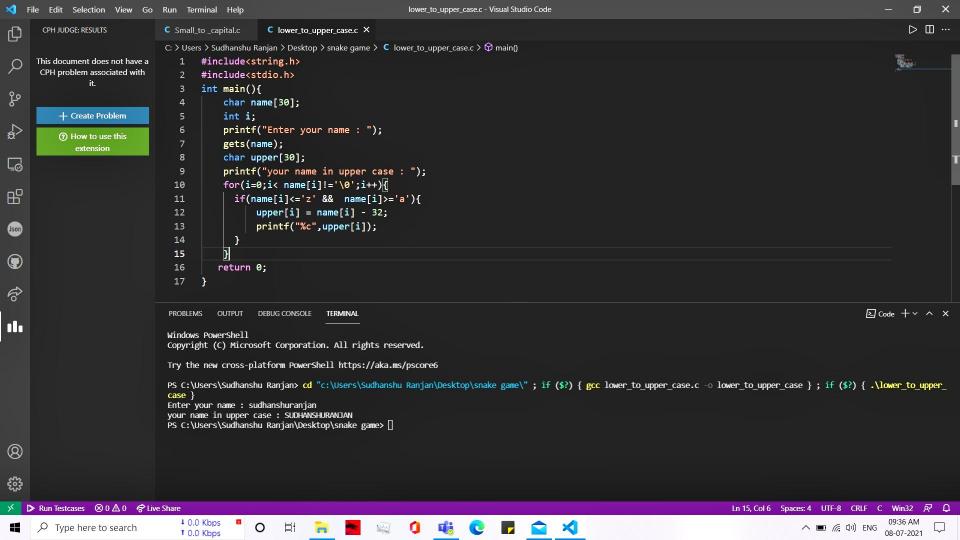
## **INDEX**

			हु वर्गाञ्चल प्रेया पूर्	
Serial No.	Contents	Date	Remarks	
1	WAP in C to input your name and then count and display the number of vowels present in the name.	06.07.2021		
2	WAP in C to input your name and then display the name in upper case.	06.07.2021		
3	WAP in C to check whether the given string is palindrome or not.	06.07.2021		
4	WAP in C to find the maximum element of an array using function.	06.07.2021		
5	WAP in C to search an element in an array using function.	06.07.2021		
6	WAP in C to implement bubble sort technique using function.	06.07.2021		
7	WAP in C to add two matrix using function.	06.07.2021		

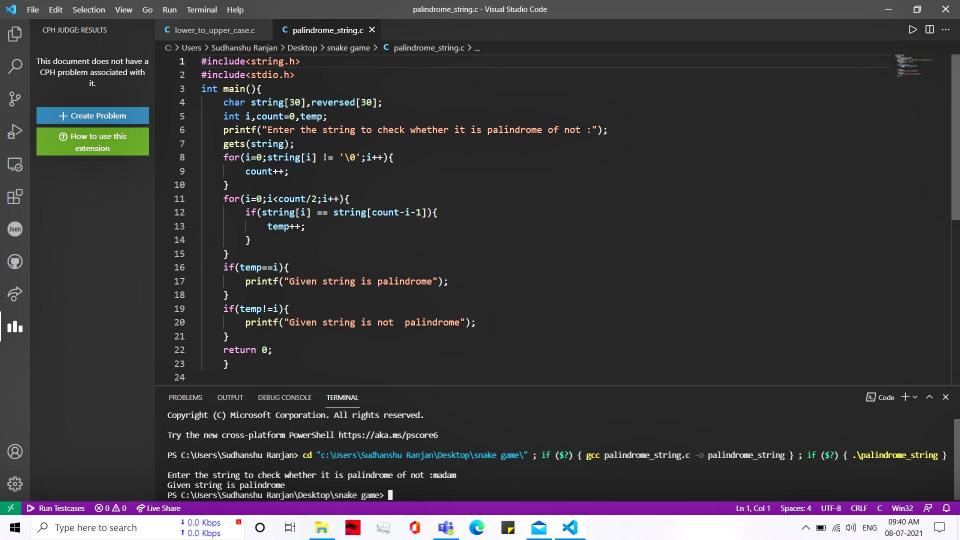
```
WAP in C to input your name and then
0.1.
     count and display the number of vowels present
     in the mame.
         Hindude (Stdio-h)
         # include <string.h>
          int main () s
           char name [40];
           int i, count = 0;
           Printf("Enter your name: ");
          gets (name);
          for (i=0; i < stolen (name); i++) of
              if (name [i] == 'a' || name [i] == 'A') }
                   count ++;
             if (name[i] == 'e' || name[i] == 'E') $
                      count++ "
             if (manne[i] == ii' || manne[i] == 'I') {
                       Count ++;
              if (name[i] == 'o' +1 nome [i] == (0') {
                           count ++;
             if (name[i] == 'v' || name[i] == 'V') {
                              count ++; } ?
          Printf(11 Number of vowels in your name is lare: "6d' count);
                neturn 0;
```



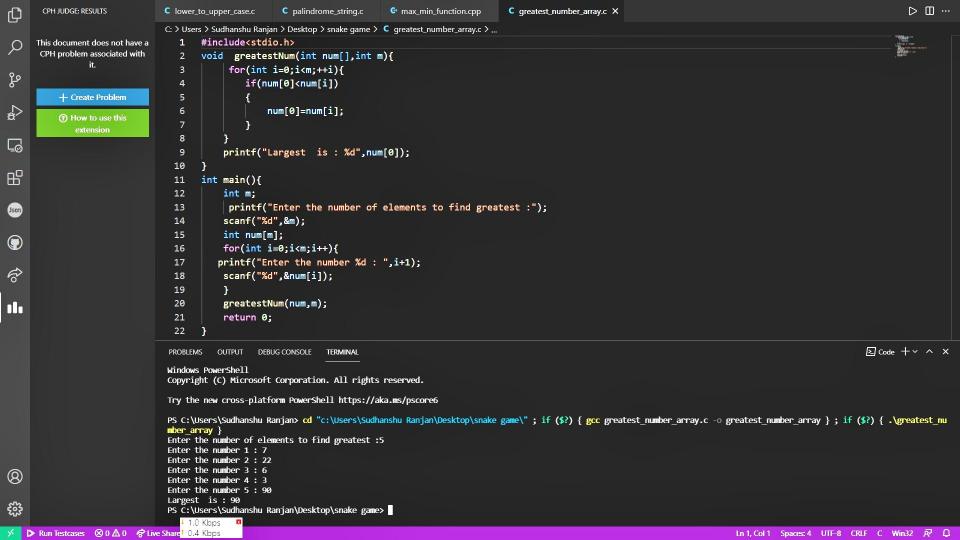
```
INAP in C to input your name and then display
Q.2.
     the name in upper case.
               # include (string. h>
               # include (Stdio.h)
              int main () of
               char name [30];
               int i;
               Printf ("Enter your name :");
               gets (name);
               char Upper [30];
               Print f ("your name in upper case: ");
               for (1=0; i< name [i] != (v); i++) of
                it (name [i] <= 'z'. 88 name [i] >= a'),
                   Upper [i] = name [i] -32;
                    Printf ("%c", upper [i]);
```



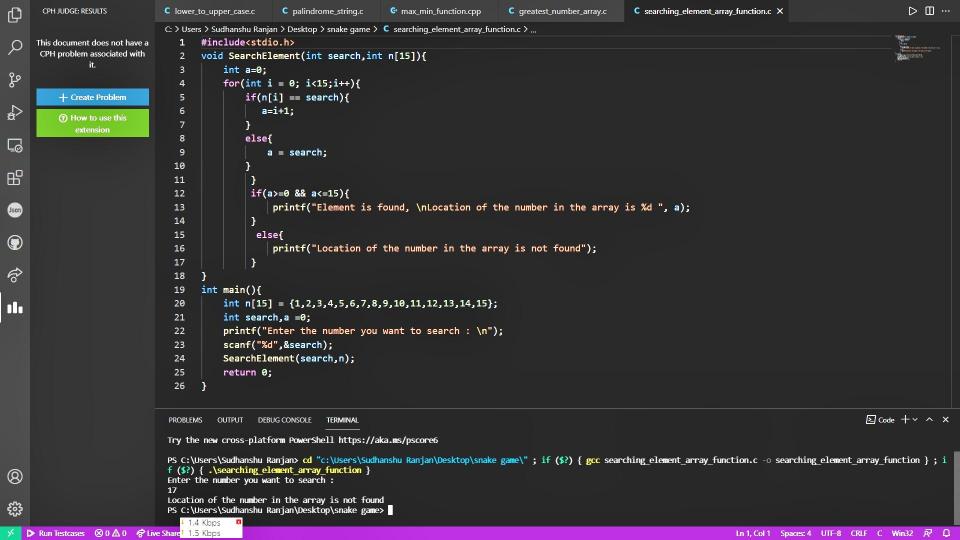
```
4.3. WAP in C to check whether the given stoing
     is palindrome or not.
              # include ( stoing oh)
              # include < stdio.h>
              int main () of
             char String [30], neversed [30];
             int i, count = 0, temp;
       Print of ("Enter the string to check whether it is
             palindrome or not: ");
       gets (string);
       for ( i=0; stoing [i] != 170"; i++) &
                Count ++;
       for (1=0; i < count/2; f++) $
            if ( string [i] == string [ count - i-1]) $
                      tempt+;
         9f ( temp == i) s
            Prints ("Given Stoing is palindrome ");
          If (temp!=1) of
              Printf ("Given stoing is not palindrome");
           return 0:
```



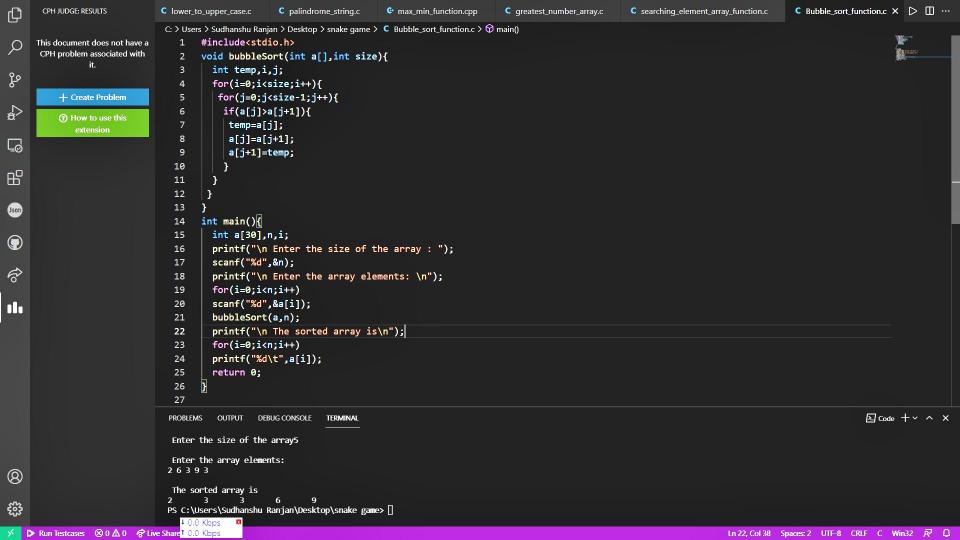
```
Q4) WAP in C to Find the maximum element of
    an away using function.
            # include < 3+dio.h>
        word greatest Num ( int num [], int m) &
             for (int i= 0; i/m; ++i) {
               if ( num[o] < num[i])
                num [o] = num[i];
           Printf ("Largest is: %d", num [0]);
      int main () of
          int m;
         Printf ("Enter the number of elements to find
                · greatest : 11);
          scant (" %d", wom);
          int num [m];
          for (int 1=0; i(m; i++) {
          printf (" Enter the number %d: ", [++);
         scanf (" % d", & num [i]);
         greatest Num (num, m);
         return 0;
```



```
(.5) WAP in c to search an element in an array
     Using function -
        # include < stdio.h>
        Void Bearch Element (int search, int on(15)) &
           int a = 0;
        For (int 1=0; 1<15; 1+) $
             if (n[i] == search) {
                a= i+1;
           else s
              a = search;
          if (a>=0 & & a <=15) of
       printf (" Element is found, inlocation of the number
        in the array is sod!, a);
        elses
          printf ("Location of the number in the array
          is not found");
     int main () &
       Int oncis J = \{1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15\}
        int search, a = 0;
        Printf ("Enter the number you want to search: \n");
        scanf ("" n.d", & search );
        Search Element (search, n);
         netvon 0;
```



```
Q.6) WAP in c to implement bubble boot technique using
      function.
           Hindude (stdio.h)
           Void bubble Sort ( int all, int size) of
            int temp, i, j;
           for ( ( i = 0; i < size ; i++) s
           for ( j=0; j<5°ze-1; j++) 5
             if (a[j] > a[j+1]) f
                 temp = a[j];
                  a[j] = Q[j+1];
                  a[j] = temp;
        int main () {
           int a [303, m, i;
          printy ("In Enter the size of array: ");
         sanf (" 2. d", &n);
         Printf (" In Enter the array elements: \n");
          for ( = 0; i<n; i++)
           Scanf (" %d", to a [i]);
           Prints ("m" The sorted array is m");
           for (i=0; icn; i++)
            Print( " " od \t", a [ i]);
             Return 0;
```



```
0.7.1
       WAP to find the sum of two matrices using
        Function.
        # include (stdio.h)
       Void Sumof Matois (int a (10) [10], int b[10] (10], int +, int c) 5
            int sum [10][10];
            for (int j=0; j<1; j++) {
              for (int k=0 ; K<C; K++) $
                 Svm[j[K] = a[j][k] +b[j][k];
          for (int j = 0; j(c; j++) f
                 Printf ("%d \t", sum [i][i]);
            printf (" ("); }
        int main () {
           int acrostros, belostros, h,c;
           Printf ("Enter the number of nows: ");
           scanf ( "%d", 80 x);
           Printf (" Enter the number of columns: 11);
           3 cant ("%d", &c);
           Printf ("Enter the first matrix: 'm");
           for ( Int i=0; i<h; i++) $
               For (int j=0; j<e; j++) {
                  Scanf ( "%d", &a[i][i]);
```

```
Printf ("monter the second matrix: m");
  for ( int 120; ix h; i++) of desible sluber te
      For ( Pot j=0; j<c; j++) {
           Scanf ( " % d", & b[i][j]);
  Printf ("Sum of the matrices A and B is : \n");
  sumo Mortaix (a, b, A, c);
    rewrn O;
        Private ("xd /t", sum [I][5]);
                              } () misons but
              in a challed , Palled by the
paintf(" Fotos the mumber of columns: ");
      ("fort : where the first entire");
```

4 (+F) ( ASI ; G=1 Int ) with

