```
)ebug
         [*] let's code arrays.c
              #include<stdio.h>
         2
              int main()
         3 -
         4
                  int i,j,arr[3][3],sum=0;
                  int *p = arr; //intialising pointer "p" to arr[0][0]
         5
         6
                  //taking array elements as inputs from the user
         7
                  printf("enter the elements into 3x3 matrix:\n");
         8
                  for(i=0; i<3; i↔)
         9 -
        10
                       for(j=0; j<3; j++)
        11 -
        12
                           scanf("%d",p);
        13
                           p++; //moving the pointer to next array element
        14
        15
        16
                //intialising the pointer again to fast array element
        17
        18
                //printing 3x3 array in the original form(matrix form)
        19
              printf("\noriginal array:\n");
        20
              for (i=0; i<3; i++)
        21 🗐 {
        22
                  for(j=0; j<3; j++)
        23 🖃
        24
                      //printing the value pointed by the pointer
        25
                      printf("%d",*p);
        26
                      p++; //moving pointer to next array element
        27
        28
                      printf("\n");
        29
                //intialising the pointer again to first array element
        30
        31
                //finding the diagonal elements in the 3x3 array and finding
        32
                for(i=0; i<3; i++)
        33
        34 🖃
                  for(j=0; j<3; i++)
        35
       36 <del>|</del>
                      if(i--i)
Resources 📶 Compile Log 🤣 Debug 📮 Find Results
```

```
for(j=0; j<3; i++)
           if(i==j)
                   sium += *p;
                   p++; //moving the pointer to next array element
     //printing the sum of all diagonal elements of the array
     printf("sum of all the diagonal elements of the array 3x3 array: %d,sum");
Compile Log Debug 🖳 Find Results
el: 0
                           Length: 1150
           Lines: 45
                                             Insert
                                                        Done parsing in 0.047 seconds
                                        |
|
|
arch
```