



Assignment (7)

A) Choose the correct answer:

1) Which of the following array declarations is correct in C?

a) `int numbers[5] = {1, 2, 3, 4, 5};`

b) `float rates[] = {2.5, 3.0, 4.5, 5.5};`

c) `char name[10] = "John";`

d) All of the above

2) How do you access the third element in an array named 'data' in C?

a) `data[2]`

b) `data[3]`

c) `data(2)`

d) `data(3)`

3) What is the default value of elements in an uninitialized array in C?

a) Null

b) 0

c) Garbage values

d) It depends on the compiler

4) What is the output of the following C code?

```
int arr[3] = {0};  
printf("%d %d %d", arr[0], arr[1], arr[2]);
```

a) 0 0 0

b) Garbage values

c) Error

d) 0 followed by garbage values

5) How can the number of elements in an array be determined in C?

a) Using the sizeof operator

b) Using the length() function

c) By manually counting the elements

d) Using the size() function

B) Write a C Program to take 5 values from the user and store them in an array. Then, print the array's elements.

```
#include <stdio.h>

int main() {
    int values[5];

    printf("Enter 5 integer values:\n");

    // Take 5 integer values from the user and store them in the array
    for (int i = 0; i < 5; i++) {
        printf("Enter value %d: ", i + 1);
        scanf("%d", &values[i]);
    }

    printf("\nThe elements in the array are: ");

    // Print the elements of the array
    for (int i = 0; i < 5; i++) {
        printf("%d ", values[i]);
    }

    printf("\n"); // Add a newline at the end for better formatting

    return 0;
}
```

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