

Faculty of Engineering and Technology Spring Semester 2024/2025

Course: Programming (1)

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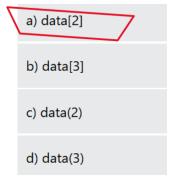
## Assignment (7)

## 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?



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



## 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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