Week 6 : Assignment	6
1) What is an array in C?	
a) A collection of similar data elements with the same data type	oe.

- b) A built-in function that performs mathematical calculations.
- c) A keyword used for declaring variables.
- d) A data type used to store characters only.

Yes, the answer is correct.

Score: 1

Accepted Answers:

- a) A collection of similar data elements with the same data type.
- 2) What is the index of the first element in an array?
- a) 0
- b) 1
- d) The index can vary depending on the array size.

Yes, the answer is correct.

Score: 1

Accepted Answers:

a) 0

- 3) Which loop is commonly used to iterate through all elements of an array in C?
- a) for loop
- b) while loop
- c) do-while loop
- d) switch loop

Yes, the answer is correct.

Score: 1

Accepted Answers:

- a) for loop
- 4) An integer array of 15 elements is declared in a C program. The memory location of the first byte of the array is 2000. What will be the location of the 13th element of the array? Assume int takes 2 bytes of memory.
- a) 2013
- b) 2024
- c) 2026
- d) 2030

Yes, the answer is correct.

Score: 1

Accepted Answers:

b) 2024

```
How can you find the sum of all elements in a 1D array "arr" with 5 elements using
 loop in C?
 a) sum = arr[0] + arr[1] + arr[2] + arr[3] + arr[4];
 b) sum = arr[5];
 c) for (int i = 0; i \le 5; i++) { sum += arr[i]; }
 d) for (int i = 0; i < 5; i++) { sum += arr[i]; }
Option (a)
Option (b)
Option (c)
Option (d)
Yes, the answer is correct.
Score: 1
Accepted Answers:
Option (d)
6)
 What is the output of the following code?
  #include <stdio.h>
  int main()
  int arr[] = \{1, 2, 3, 4, 5\};
  int i = 0;
  while (i \le 5) {
     printf("%d ", arr[i]);
     i += 2;
  return 0;
  }
a) 135
b) 12345
c) 123
d) 1 4
Yes, the answer is correct.
Score: 1
Accepted Answers:
   a) 135
```

```
7)
  What will be the output?
  #include <stdio.h>
  int main()
     int arr[]={1,2,3,4,5,6};
     int i,j,k;
     j=++arr[2];
     k=arr[1]++;
     i=arr[j++];
     printf("i=%d, j=%d, k=%d", i, j, k);
  return 0;
  }
a) i=5, j=5, k=2
b) i=6, j=5, k=3
c) i=6, j=4, k=2
d) i=5, j=4, k=2
No, the answer is incorrect.
Score: 0
Accepted Answers:
   a) i=5, j=5, k=2
  What will be the output after execution of the program?
   #include <stdio.h>
   int main()
      int i, a[4]={3,1,2,4}, result;
     result=a[0];
      for(i=1; i<4; i++)
      if(result>a[i])
      continue;
      result=a[i];
      printf("%d", result);
      return 0;
   }
a) 1
b) 2
```

```
c) 3
d) 4
Yes, the answer is correct.
Score: 1
Accepted Answers:
d) 4
9)
  What will be the output?
   #include<stdio.h>
   int main()
   int n = 2;
   int sum = 5;
   switch(n)
          case 2: sum = sum-3;
          case 3: sum*=4;
          break;
          default:
            sum = 0;
   printf("%d", sum);
      return 0;
Hint
Yes, the answer is correct.
```

Score: 1

Accepted Answers: (Type: Numeric) 8

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10)
   Find the output of the following C program
   #include<stdio.h>
   int main()
   {
          int a;
          int arr[5] = \{1, 2, 3, 4, 5\};
          arr[1] = ++arr[1];
          a = arr[1]++;
          arr[1] = arr[a++];
          printf("%d, %d", a, arr[1]);
          return 0;
   }
a) 5, 4
b) 5, 5
c) 4, 4
d) 3, 4
Yes, the answer is correct.
Score: 1
Accepted Answers:
c) 4, 4
```