

Array and String

Q 1. What is an array?

Ans1: Array is a way to store data into the memory in specific contiguous manner. It provides a facility to programmer to store similar type of data. Like- int, char, float etc.

Ex- int arr[15];

Q2. What do you understand by string used in c?

Ans2: Basically string is group of character stored in single dimensional array. Where a particular group of character is terminated by NULL (\0). String can be declared as follow-

```
Char a[] = "hello worlds";
```

We can perform many operation like- copy(strcpy), compare(strcomp), Concatenates(strcat) etc.

Q3- Wrp to find the average of n numbers using arrays.

Ans3-

```
#include <stdio.h>

int main()
{
    int marks[10], i, n, sum = 0, average;
    printf("Enter number of elements: ");
    scanf("%d", &n);

    for(i=0; i<n; ++i)
    {
        printf("Enter number%d: ", i+1);
        scanf("%d", &marks[i]);
    }
}
```

```
        sum += marks[i];

    }

    average = sum/n;
    printf("Average = %d", average);

    return 0;

}
```

Q4-Wrp Program to calculate the sum of array elements by passing to a function.

Ans4-

```
#include <stdio.h>

float Sum(float num[]);

int main() {

    float result, num[] = {23.4, 55, 22.6, 3, 40.5, 18};

    result = Sum(num);

    printf("Result = %.2f", result);

    return 0;

}
```

```
float Sum(float num[])

{

    float sum = 0.0;

    for (int i = 0; i < 6; ++i)

    {

        sum += num[i];

    }

}
```

```
}
```

```
return sum;
```

```
}
```