

WEEK - 4 Assignment Questions

Assignment

1. WAP in C to add two matrix using pointers.
2. WAP in C to print a string in reverse using a pointer.
3. WAP in C to store the name and roll no. of 5 students using an array of structures.
4. WAP in C to store and display the name of your favorite book and the author's name using union.
5. WAP in C to check whether a given substring is present in the given string.

Practice Questions:

Pointers:

1. Write a program in C to add two numbers using pointers.
2. Write a program in C to find the maximum number between two numbers using a pointer.
3. Write a program in C to Calculate the length of the string using a pointer.
4. Write a program in C to compute the sum of all elements in an array using pointers.
5. Write a program in C to sort an array in ascending using Pointer.
6. Write a C program to multiply two matrix using pointers.
7. Write a C program to find length of string using pointers.

Structures and Unions:

1. WAP in C to store the details of a student using structure and display them.
2. WAP in C to store the marks of a student in any 3 subjects using structure and calculate the average marks scored.
3. WAP in C to store the price of three goods using structures and calculate the total price and find the maximum price.
4. WAP in C to add 2 complex numbers using structure.
5. WAP in C to find the sum of three 2-dimensional vectors using structures.
6. WAP in C to add 2 distances in the inch-feet system using structure. (Hint:1 foot=12 inches)
7. WAP in C to calculate the difference between 2 time periods using structures. (The time period includes hours, minutes and seconds)
8. WAP in C to store the height and weight of N people using array of structures. (Hint: N is to be taken as an input)
9. WAP in C to store the details of an employee (Example: Emp Name, Emp Age, Emp no.,Emp Salary) using union.

10. WAP in C to store and display the electricity bills of three months by using union.

C Libraries Questions:

1. Write a C program to find the length of a string.
2. Write a C program to concatenate two strings.
3. Write a C program to find the frequency of character in a string.
4. Write a program in C to check whether a letter is uppercase or not.
5. Write a C programming to convert vowels into uppercase characters in a given string.
6. Write a C program to sort a string array in ascending order.
7. Write a program to reverse a string in C.
8. Write a C program to calculate x raised to the power n.
9. Write a program to check if a number is Armstrong or not using a math function.
10. Write a program in C to find the largest and smallest word in a string.

Achiever Section :

1. What will be the output of the C program?

```
#include<stdio.h>
void function(char**);
int main()
{
    char *arr[] = { "ram", "rom", "log", "err", "mal",
                    "loc" };
    function(arr);
    return 0;
}
void function(char **ptr)
{
    char *ptr1;
    ptr1 = (ptr += sizeof(int))[-2];
    printf("%s\n", ptr1);
}
```

A.log

B.rom

C.err

D.mal

2.What will be the output of the C program?

```
#include<stdio.h>
```

```
int main(){  
    char *ptr = "Liftoff c", arr[15];  
    arr[15] = *ptr;  
    printf("%c",arr[0]);  
    return 0;  
}
```

A. Garbage Value

B. Runtime error

C. L

D. Compile time error

3. What will be the output of the C program?

```
#include<stdio.h>
```

```
struct st
```

```
{  
    int x;  
    struct st next;  
};
```

```
int main()  
{  
    struct st temp;  
    temp.x = 10;  
    temp.next = temp;  
    printf("%d", temp.next.x);  
    return 0;  
}
```

A.Compiler Error

B.10

C.Runtime Error

D.Garbage Value

4.What will be the output of the C program?

```
#include <stdio.h>
int main()
{
    union demo {
        int x;
        int y;
    };

    union demo a = 100;
    printf("%d %d", a.x, a.y);
}
```

A. 100 0

B. 100 100

C. 0 0

D. Compilation Error

5. What will be the output of the following C code?

```
#include<stdio.h>
void main()
{
    div_t res;
    res = div(34, 4);
    printf("quotient part = %d\n", res.quot);
    printf("remainder part = %d\n", res.rem);
}
```

A. quotient part=0

remainder part=4

B. quotient part=8

remainder part=2

C. quotient part=4

remainder part=0

D. quotient part=2

remainder part=8