KIDUS ABEBE MEKONEN
Roll No- 2106285
Section A11
IT department

Day 31 Lab questions

#1. WAP to create an array that can store max. 5 integers and display the contents of the array

Code:

```c
#include <stdio.h>
int main()
{
    int i285, arr285[5];
    printf("Please provide 5 positive integers\n");
    for(i285=0;i285<=4;i285++)
    {
        scanf("%d",&arr285[i285]);
        printf("Element %d is %d\n",i285,arr285[i285]);
    }
    return 0;
}
```

Output:

```
PROBLEMS  OUTPUT  TERMINAL
TERMINAL
PS C:\Users\KIIT\Desktop\Programming\class9_arrays> gcc input_array.c
PS C:\Users\KIIT\Desktop\Programming\class9_arrays> ./a.exe
Please provide 5 positive integers
1 2 3 45 4
Element 0 is 1
Element 1 is 2
Element 2 is 3
Element 3 is 45
Element 4 is 4
PS C:\Users\KIIT\Desktop\Programming\class9_arrays>
```

```
PS C:\Users\KIIT\Desktop\Programming\class9_arrays> ./a.exe
Please provide 5 positive integers
8724 35 6 8 9
Element 0 is 8724
Element 1 is 35
Element 2 is 6
Element 3 is 8
Element 4 is 9
PS C:\Users\KIIT\Desktop\Programming\class9_arrays>
```

#2. WAP to find out the sum of the numbers stored in an array of 5 integers.

Code:

```c
#include <stdio.h>
int main()
{
    int sum285,i285;
    int arr285[5];
    printf("please give 5 positive integers\n");
    for(i285=0;i285<=4;i285++)
    {
        scanf("%d",&arr285[i285]);
    }
```

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```
    for(i285=0;i285<=4;i285++)
    {
        sum285 = sum285 + arr285[i285];
    }
    printf(" The sum of the integers is %d",sum285);
    return 0;
}
```

Output:

```
PROBLEMS  OUTPUT  TERMINAL
TERMINAL
PS C:\Users\KIIT\Desktop\Programming\class9_arrays> gcc sum_array.c
PS C:\Users\KIIT\Desktop\Programming\class9_arrays> ./a.exe
please give 5 positive integers
1 2 3 4 5
 The sum of the integers is 15
PS C:\Users\KIIT\Desktop\Programming\class9_arrays>
```

```
PS C:\Users\KIIT\Desktop\Programming\class9_arrays> ./a.exe
please give 5 positive integers
732 42 6 8 0
 The sum of the integers is 788
PS C:\Users\KIIT\Desktop\Programming\class9_arrays>
```

#3. WAP to display elements in reverse order of an array that can store 5 integers.

Code:

```
#include <stdio.h>
int main()
{
    int i285,arr285[5];
    printf("Please provide 5 integers\n");
    for(i285=0;i285<5;i285++)
    {
        scanf("%d",&arr285[i285]);
    }
    for(i285=4;i285>=0;i285--)
    {
        printf("Element %d is %d \n",i285,arr285[i285]);
    }
    return 0;
}
```

Output:

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```
PROBLEMS  OUTPUT  TERMINAL
TERMINAL
PS C:\Users\KIIT\Desktop\Programming\class9_arrays> gcc reverse_array.c
PS C:\Users\KIIT\Desktop\Programming\class9_arrays> ./a.exe
Please provide 5 integers
1 2 3 4 5
Element 4 is 5
Element 3 is 4
Element 2 is 3
Element 1 is 2
Element 0 is 1
PS C:\Users\KIIT\Desktop\Programming\class9_arrays>
```

```
PS C:\Users\KIIT\Desktop\Programming\class9_arrays> ./a.exe
Please provide 5 integers
837 34 5 6 8
Element 4 is 8
Element 3 is 6
Element 2 is 5
Element 1 is 34
Element 0 is 837
PS C:\Users\KIIT\Desktop\Programming\class9_arrays>
```

#4. WAP to write an array of size 50 and read n (n < 50) elements and display the content.

Code:

```c
#include <stdio.h>
int main()
{
    int a_285[50],i_285,n_285;
    printf("\nEnter the range:");
    scanf("%d",&n_285);

    printf("\nEnter values for the array: ");
    for(i_285=0; i_285<n_285; i_285++)
    scanf("%d",&a_285[i_285]);
```

```c
    printf("\nThe elements are:");
    for(i_285=0; i_285<n_285; i_285++)
    printf("%d \t",a_285[i_285]);
    return 0;
}
```

Output;

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