

WEEK – 2 Assignment Questions

Assignment

1. Write a C program to calculate the sum of digits of a number.
2. Write a C program to print the sum of all the even elements and even position elements in an array.
3. Write a C program to count the total number of words in a string.
4. Write a C program to find the largest and smallest element in an array.
5. Write a program to print given patterns using loops :



Practice Questions:

Loops:

1. Write a C program to print all natural numbers from 1 to n.
2. Write a C program to print all natural numbers in reverse (from n to 1).
3. Write a C program to print all ASCII characters with their values.
4. Write a C program to find the first and last digit of a number.
5. Write a C program to calculate the sum of digits of a number.
6. Write a C program to enter a number and print its reverse.

7. Write a C program to find HCF (GCD) of two numbers.
8. Write a C program to find LCM of two numbers.
9. Write a C program to check whether a number is Prime number or not.
10. WAP a C program to print the following patterns

a.

```
  *
 * *
 * * *
 * * * *
 * * * * *
```

b.

```
1
1 2
1 2 3
1 2 3 4
1 2 3 4 5
```

c.

```
A
B B
C C C
D D D D
E E E E E
```

d.

```
* * * * *
* * * *
* * *
* *
*
```

e.

```
1 2 3 4 5
1 2 3 4
1 2 3
1 2
1
```

f.

```
1
2 3
4 5 6
7 8 9 10
```

Arrays:

1. Write a C program to read and print elements of an array.
2. Write a C program to read the number of values in an array and display it in reverse order.
3. Write a C program to copy the elements of one array into another array.
4. Write a C program to find the duplicate elements in an array.
5. Write a C program to merge two arrays.

Strings:

1. Write a C program to take input to a string and print it out.
2. Write a C program to find the length of a string without using library function.
3. Write a C program to count the total number of alphabets, digits and special characters in a string.
4. Write a C program to find maximum occurring character in a string.

Achiever Section:

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

```
#include<stdio.h>
int x = -1;
int main(){
    while(x++ == 1)
        printf("loop");
    return 0;
}
```

A. Prints Nothing

B. loop

C. loop loop

D. loop loop loop

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

```
#include<stdio.h>
int main(){
    int i = 5;
    while(--i > 0)
        printf("Loop ");
    return 0;
}
```

A. Loop Loop Loop Loop Loop Loop

B. Loop Loop Loop Loop Loop

C. Loop Loop Loop Loop

D. Loop Loop Loop

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

```
#include<stdio.h>
int main()
{
    int i, j;
    for(i = 1, j = 1; i<=3, j<=3; i++, j++)
        printf("%d %d ", i, j);
    return 0;
}
```

A. Compilation Error

B. 1 2 3 1 2 3

C. 1 1 2 2 3 3

D. None of the above

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

```
#include<stdio.h>
int main()
{
    int rows = 3, columns = 4, i, j, k;
    int a[3][4] = {23, 46, 69, 102, 99, 109};
    i = j = k = 99;
    for(i = 0; i>rows; i++)
        for(j = 0; j>columns; j++)
```

```

        if(a[k][j]>k)
            k = a[i][j];
        printf("%d\n", k);
        return 0;
}

```

A. 99

B. 102

C. 109

D. None of the above

5. What will be the output of the C program by considering 'b' as a User input?

```

#include<stdio.h>
#define loop for(;;)
int main()
{
    printf("DONE");
    loop;
    return 0;
}

```

A. Compilation error

B. Done

C. Program never ends

D. None of the above

6. What will be the output of the C program by considering 'b' as a User input?

```

#include<stdio.h>
int main()
{
    char temp;
    char arr[10] = {1, 2, 3, 4, 5, 6, 9, 8};
    temp = (arr + 1)[2];
    printf("%d\n", temp);
    return 0;
}

```

A. 2

B. 3

C. 4

D. 5