

National College of Computer Studies (NCCS)

BIM First Semester: C programming lab sheet 8

1. Analyze the output of the given below program

```
#include<stdio.h>

#include<conio.h>

void main()

{

int x=9;

int *xptr=&x;

int **xpptr=&xptr;

printf("Content of x:%d\n",x);

printf("Content of x:%d\n",*xptr);

printf("Content of x:%d\n",*(*(xpptr)));

printf("Address of x:%d\n",&x);

printf("Address of x:%d\n",xptr);

printf("Address of x:%d\n",*xpptr);

printf("Content of xptr:%d\n",xptr);

printf("Content of xptr:%d\n",*xpptr);

printf("Address of xptr:%d\n",&xptr);

printf("Address of xptr:%d\n",xpptr);

getch();

}
```

2. Write a program that can accept the content of two numbers and perform them addition, subtraction and multiplication between them using pointer only.
3. Write a program to find the largest number among three numbers using pointer.
4. Write a program which takes an input from user and then checks whether it is a number or a character.
5. Write a program to display the sum and average of numbers from 1 to n.
6. Write a program that can accept the content of one 1-Dimensional Array called A of size 10 using pointer and display its content using pointer only.
7. Write a program that can declare a 1-Dimensional called height [20], accept its content using pointer and find the largest among them using pointer.

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8. Write a program that can accept the content of two 1-Dimensional arrays called A and B of size 10 using pointer. Perform $C=A+B$ using pointer only, now display the content of C array but using pointer.
9. Write a program that can declare a 1-Dimensional array of size n. Now accept the content of that array and display their content.
10. Write three 1-Dimensional array called A, B and C of size n. Now accept the content of A and B. Perform $C=A-B$ and display the result.
11. Write a program that can swap the content of two variables using user defined function called swap with following prototype: `void swap(int *, int *)`;
12. Write a program that can find the largest of number of an array using user defined function called largest with following prototype: `int largest(int *)`;
13. Write a program that can sort an array in ascending order using user defined function called ascending with following prototype: `void ascending(int *)`;
14. Write a program that can perform $C=A+B$ where A,B and C are 1-Dimensional array of size 10, using user defined function called add with following prototype: `void add(int *at,int *bt,int *ct)`;

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