

Computer_Assignment_04

1. Write a program in CPP to illustrate the different types of constructors.
2. Write a complete program in CPP to illustrate the multilevel inheritance and state that in what order will the constructor and destructor be invoked in?
3. Write a program to illustrate writing and reading **characters** to/from a file.
4. Write a program to illustrate writing/reading **strings** to/from a file (sample.txt).

Sample String:- Jhonny jhonny Yes Papa
Eating Sugar No Papa
Open your mouth HA HA HA

5. Write a program to read the above file **sample.txt** and display the following:-
 - a. Frequency of character 'a'. (Not 'A')
 - b. Number of numeric characters.
 - c. Number of vowels and consonants.
6. Write a program in CPP to read an existing text file and create new file.
7. Write the algorithm and a function to sort the elements of an array using Bubble sort.
8. Find the output of the following program:

```
#include<iostream.h>
void main( )
{ int Array[]={4,6,10,12};
  int *pointer=Array;
  for(int l=1;l<=3;l++)
    { cout<<*pointer<<"#";
      pointer++; }
  cout<<endl;
  for(l=1;l<=4;l++)
    { (*pointer)*=3;
      --pointer; }
  for(l=1;l<5;l++)
    cout<<Array[l-1]<<"@";
  cout<<endl; }
```

9. Write a function in C++ to perform a PUSH operation on a dynamically allocated stack.
10. Evaluate the following postfix expression using a stack and show the contents of the stack after execution of each operation 5,11,-,6,8,+ ,12,* ,/

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