C++ Lab Assessment – 05

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Qn. No:5

C++ Program:

```cpp
#include<iostream>
#include<string.h>
using namespace std;
class ascend
{
    public:
    virtual char arrange(char a[])
    {
        for (int i=0;i<strlen(a);i++)
        {
            for(int j=0;j<strlen(a);j++)
            {
                if(a[i]<a[j])
                {
                    char t;
                    t=a[i];
                    a[i]=a[j];
                    a[j]=t;
                }
            }
        }
        cout<<"Ascending ordered stirng is \t"<<a<<"\n";
    }

};
class descend:public ascend
{
    public:
    char arrange(char d[])
    {
        for (int i=0;i<strlen(d);i++)
        {
            for(int j=0;j<strlen(d);j++)
            {
                if(d[i]>d[j])
                {
                    char t;
                    t=d[i];
                    d[i]=d[j];
                    d[j]=t;
                }
```

```cpp
class descend:public ascend
{
    public:
    char arrange(char d[])
    {
        for (int i=0;i<strlen(d);i++)
        {
            for(int j=0;j<strlen(d);j++)
            {
                if(d[i]>d[j])
                {
                    char t;
                    t=d[i];
                    d[i]=d[j];
                    d[j]=t;
                }
            }
        }
    cout<<"\nDescending ordered stirng is \t"<<d<<"\n";
    }
};
main()
{
    char word[25];
    cout<<"Enter a string :";
    cin>>word;
    ascend *p,obj1;
    descend obj2;
    p=&obj2;
    p->arrange(word);
    obj1.arrange(word);
}
```

Output:

```
Enter a string :DHANUSHraj

Descending ordered stirng is     rjaUSNHHDA
Ascending ordered stirng is      ADHHNSUajr


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Process exited after 7.568 seconds with return value 0
Press any key to continue . . .
```