EEN 103 Tutorial 3

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(I have copied and pasted my codes from VS Code, it may appear as if it is a screenshot but you can copy it)

Question 1

```cpp
#include<iostream>
using namespace std;
int main()
{
    cout<<"Input number of terms"<<endl;
    int n;
    cin>>n;
    int first=0;
    int second=1;
    int count =2;
    cout<<first<<" ";

    while(count<=n)
    {
        cout<<second<<" ";
        int v=second;
        second=second+first;
        first=v;
        12
        count++;
    }
}
```

Output-

```
Input number of terms
12
0 1 1 2 3 5 8 13 21 34 55 89
PS C:\Users\HP\OneDrive\Desktop\C++ VSC> []
```

Question 2

```cpp
#include<iostream>
#include<string>
using namespace std;
int main()
{
  cout<<"Enter the String";
```

```cpp
    string newstring;
    cin>>newstring;
    string boomstring="";
    string okaystring="";
    int n= newstring.length();
    for(int i=0;i<n;i++)
    {
char c=newstring[i];
int m=(int)c;
if((m>=97)&&(m<=122))
{
    boomstring=boomstring+c;
}
else
{
    int m=(int)c;
    m=m+32;
    char f=(char)m;
    boomstring=boomstring+f;
}}
for(int i=0;i<n;i++)
  {
char c=newstring[i];
int m=(int)c;
if((m>=65)&&(m<=90))
{
    okaystring=okaystring+c;
}
else
{
    int n=(int)c;
    n=n-32;
    char f=(char)n;
    okaystring=okaystring+f;
}}
cout<<boomstring<<endl;
cout<<okaystring;
}
```

Output-

Question 3

```cpp
#include<iostream>
#include<string>
using namespace std;
int main()
{
string firststring;
cout<<"Enter first string";
cin>>firststring;
string secondstring;
cout<<"Enter second string";
cin>>secondstring;
string newstring="";
int n1=firststring.length();
int n2=secondstring.length();
int c1=0;
int c2=0;
while(c1<=n1)
{
    newstring=newstring+firststring[c1];
    c1++;
}
while(c2<=n2)
{
    newstring=newstring+secondstring[c2];
    c2++;
}
cout<<newstring;
}
```

Output-

```
Enter first string
Arshita
Enter second string
Dawra
ArshitaDawra
PS C:\Users\HP\OneDrive\Desktop\C++ VSC> []
```

Question 4

```cpp
#include<iostream>
#include<string>
using namespace std;
int main()
{
cout<<"Enter String";
string boom;
bool check=true;
cin>>boom;
int n=boom.length();
string boomstring;
for(int i=0;i<n;i++)
  {
char c=boom[i];
int m=(int)c;
if((m>=97)&&(m<=122))
{ boomstring=boomstring+c;   }
else
{   int m=(int)c;
    m=m+32;
    char f=(char)m;
    boomstring=boomstring+f;
}}
int j;
for(j=0;j<(n/2);j++)
{   char c1=boomstring[j];
    char c2=boomstring[n-1-j];
if(c1!=c2)
{   check= false;
    break;}}
if(check)
{   cout<<"Palindrome";}
else{
    cout<<"not palindrome";}}
```

Output-

Question 5

```cpp
#include<iostream>
#include<string>
using namespace std;
int main()
{
    cout<<"Enter first string";
    string first;
    cin>>first;
    cout<<"Enter second string";
    string second;
    cin>>second;
    int n1=first.length();
    int n2=second.length();
    if(n1!=n2)
    {
 cout<<"Strings not equal";
    }
    else
    {
    int j=0;
    int m=1;
    for(int i=0;i<n1;i++,j++)
    {
        char c=second[j];
        char d=first[i];
        if(c==d)
        {
            m++;
        }
    }

}
if(m==n1+1)
{
    cout<<"strings are equal";
}
else
{
    cout<<"strings not equal";
}
```

```
}
}
```

Output-

Question 6

```cpp
#include<iostream>
#include<fstream>
using namespace std;
int main()
{

    ofstream NOTESq6;
    NOTESq6.open("NOTES.TXT");
    for(int i=1;i<=100;i++)
    {
        NOTESq6<<i<<" ";
    }
    NOTESq6.close();

}
```

Output-

File   Edit   Format   View   Help

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 5