CS-114 - Fundamental of ProgramingLab Manual # 06

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LAB TASK 1

```
#include<iostream>
      using namespace std;
4 - int main() {
          int prev,current,next,terms,i,j;
          cout<<"Enter number of terms: ";</pre>
          cin>>terms;
          cout<<" "<<endl;
cout<<"Fibonacci sequence of "<<terms<<" terms:-"<<endl;</pre>
          for(i=0;i<terms;i++)
11 -
          {
               prev=0;
               current=1;
               for(j=0;j<=i;j++)
15 -
                   cout<<prev<<" ";</pre>
                   next=prev+current;
                   prev=current;
19
                   current=next;
20
               cout<<" "<<endl;
23
          return 0;
```

```
Enter number of terms: 5

Fibonacci sequence of 5 terms:-0
0 1
0 1 1
0 1 1 2
0 1 1 2 3
```

```
LAB TASK 2
```

```
#include<iostream>
      using namespace std;
 4 — int main() {
          int n,sum,i,j;
          n=0;
           sum=1;
           for(i=0;i<10;i++)
 9 —
               if(i<=4)
11 🖳
                   for(j=0;j<i;j++)
13 -
14
15
16 -
                        cout<<sum<<"
                        sum++;
               }
else
19 🗀
20
                   for(j=0;j<i;j++)
21 —
22
23
24 —
                        cout<<sum<<" ";
                        sum++;
25
               cout<<endl;
28
```

```
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

Process exited after 0.02595 seconds with return value 0
Press any key to continue . . .
```

```
#include<iostream>
      using namespace std;
4 — int main() {
          int num,i,r,sum,check;
          sum=0;
          check=0;
                                                                                     HOME TASK 1
          for(num=0;num<=50;num++)
9 —
10
              if(num==0||num==1)
11 -
              {
                  continue;
14
              for(i=2;i<num;i++)</pre>
15 -
                  r=num%i;
                  if(r==0)
18 🗀
                       check++;
                       break;
              if(check==0&&num!=1)
24 <del>–</del>
                  sum=sum+num;
              check=0;
29
          cout<<"The sum of prime numbers between 1 and 50 is "<<sum<<endl;</pre>
30
          return 0;
```

```
The sum of prime numbers between 1 and 50 is 328

-----
Process exited after 0.01715 seconds with return value 0
Press any key to continue . . . _
```

```
#include<iostream>
using namespace std;

int main() {
    for(int i=1;i<=5;i++)
    {
        for(int j=1;j<=5;j++)
        {
            if(j<=i)
            {
                 cout<<j<<" ";
            }
            else
            {
                 continue;
            }
            cout<<endl;
        }
        return 0;
}</pre>
```

HOME TASK 2

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

Process exited after 0.01674 seconds with return value 0
Press any key to continue . . .
```

HOME TASK 3

```
#include<iostream>
     using namespace std;
6 —
             if(i==1)
8 -
                cout<<i<<endl;</pre>
                continue;
11
            }
else
13 —
             {
14
                for(int j=1;j<=6;j++)
15 —
16
                    for(int k=2;k<=6;k+=2)
17 –
                        if(k==j)
                            for(int l=1;l<=k;l++)
21 —
                                cout<<k<<" ";
23
24
                        else
26 -
                        {
                            continue;
                        cout<<endl;
30
                cout<<endl;
34
         return 0;
```

```
1
2 2
4 4 4 4
6 6 6 6 6
-----
Process exited after 0.06501 seconds with return value 0
Press any key to continue . . . _
```