# National University of Computer and Emerging Sciences



## **ASSIGNMENT # 2**

For

PROGRAMMING FUNDAMENTALS

AMNA ILYAS

22L-6277

**BS EE-1D** 

```
#include<iostream>
using namespace std;
int main()
    int x=10, y=10;
    char loc;
    cout<<"\nYour current loaction is: x="<<x<<" y="<<y<<endl;
    cout<<"\nPress any key <n,s,e,w>: ";
    cin>>loc:
    while(loc!='t')
        if(loc=='n' || loc=='s' || loc=='e' || loc=='w' )
            switch(loc)
                case 'n':
                        y=y+1;
                        break:
                case 's':
                        y=y-1;
                        break;
                case 'e':
                        x=x+1;
                        break;
                case 'w':
                        x=x-1;
                        break;
        cout<<"\nYour current loaction is: x="<<x<<" y="<<y<<endl;
        cout<<"\nPress any key <n,s,e,w>: ";
        cin>>loc;
        else
            cout<<"Please choose a valid location"<<endl;</pre>
            loc='t';
    cout<<end1;
    system("pause");
    return 0;
```

#### C:\Users\dell\OneDrive\Desktop\22L-6277\_Q1.exe

Your current loaction is: x=10 y=10

Press any key <n,s,e,w>: e

Your current loaction is: x=11 y=10

Press any key <n,s,e,w>: w

Your current loaction is: x=10 y=10

Press any key <n,s,e,w>: s

Your current loaction is: x=10 y=9

Press any key <n,s,e,w>: n

Your current loaction is: x=10 y=10

Press any key <n,s,e,w>: t

Press any key to continue . . .

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

int main()
{
    for( int i=1;i<=10;i++)
        {
        for(int j=1; j<=10; j++)
            cout<<setw(6)<<i*j<<" ";
            cout<<endl;
        }
        cout<<endl;
        system("pause");
        return 0;
}</pre>
```

18 20 27 30
36 40
45 50
54 60
63 70
72 80
81 90
90 100

```
#include<iostream>
#include<iomanip>
using namespace std;
int main()
    int x ,y, sum=0;
    cout<<"Enter a first odd number: ";
    cout<<"Enter a second odd number: ";
    cin>>y;
    int i=(x+1);
    if(x%2!=0 && y%2!=0 && x>0 && y>0 && x<y)
        cout<<"Even numbers are ";
        while(i<y)
            if(i%2==0)
               cout<<i<<" ";
            else
               sum=sum+i;
            i++;
        cout<<"\nSum of odd numbers between "<<x<<" and "<<y<<" is "<<sum<<endl;
    else
        cout<<"Invalid Input"<<endl;
    cout<<endl;
    system("pause");
    return 0;
```

```
Enter a first odd number: 3
Enter a second odd number: 55
Even numbers are 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 34 36 38 40 42 44 46 48 50 52 54
Sum of odd numbers between 3 and 55 is 725

Press any key to continue . . .
```

```
#include<iostream>
using namespace std;
int main()
    int N, rem=1, d, i=1;
    int j=1;
    cout<<"Enter the number: ";
    cin>>N;
    d=N;
    while(i<=N*N)
        if(i%N==rem || i%N==d || i==1 || i==N || i==(N*N))
           cout<<j;
        else
           cout<<" ";
        if(i%N==0)
            cout<<endl;
            rem++;
            d--;
            if(i>(N*N+1)/2)
                j--;
            else
                j++;
    i++;
    return 0;
```

### C:\Users\dell\OneDrive\Desktop\22L-6277\_Q4.exe Enter the number: 11 5 5 5 5 Process exited after 1.682 seconds with return value 0 Press any key to continue . . .