

Name: Saad Ahmad

Roll Number: 20P-0051

Section: BS (CS) 2D

## Task#1:

Code:

```
Q1.cpp X
Q1.cpp > main()
1  #include<iostream>
2  using namespace std;
3  int main()
4  {
5      int array[3][3];
6      array[0][0]=70;
7      array[0][1]=80;
8      array[0][2]=90;
9      array[1][0]=10;
10     array[1][1]=70;
11     array[1][2]=30;
12     array[2][0]=95;
13     array[2][1]=77;
14     array[2][2]=76;
15
16     cout<<"-----"<<endl;
17     cout<<"1st Method of Array Initialization"<<endl;
18
19     for (int r = 0; r < 3; r++)
20     {
21         for (int c = 0; c < 3; c++)
22         {
23             cout<<array[r][c]<<" ";
24         }
25         cout<<endl;
26     }
27     cout<<"*****"<<endl;
28
29     int marks[3][3]={ {30,40,50} , {70,80,10} , {12,45,67} };
30
31     cout<<"2nd Method of Array Initialization"<<endl;
32
33     for (int r = 0; r < 3; r++)
34     {
35         for (int c = 0; c < 3; c++)
36         {
37             cout<<marks[r][c]<<" ";
38         }
39         cout<<endl;
40     }
41     cout<<"-----"<<endl;
42     return 0;
43 }
```

## Output:

```
TERMINAL  OUTPUT  PROBLEMS  DEBUG CONSOLE

1st Method of Array Initialization
70 80 90
10 70 30
95 77 76
*****
2nd Method of Array Initialization
30 40 50
70 80 10
12 45 67
-----
PS D:\task_4> |
```

## Task#2

## Code:

```
Q2.cpp  X
Q2.cpp > ...
1  #include<iostream>
2  using namespace std;
3  int main()
4  {
5      int array[3][3];
6
7      cout<<"1st Method of Array Initialization"<<endl;
8      for (int r = 0; r < 3; r++)
9      {
10         for (int c = 0; c < 3; c++)
11         {
12             cout<<"array["<<r<<" "]<<" "<<"["<<c<<"] = ";
13             cin>>array[r][c];
14         }
15         cout<<"-----"<<endl;
16     }
17
18     cout<<"Values of Array"<<endl;
19     for (int r = 0; r < 3; r++)
20     {
21         for (int c = 0; c < 3; c++)
22         {
23             cout<<array[r][c]<<" ";
24         }
25         cout<<endl;
26     }
27
28 }
```

## Output:

```
TERMINAL  OUTPUT  PROBLEMS  DEBUG CONSOLE

Windows PowerShell
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Try the new cross-platform PowerShell https://aka.ms/pscore6

PS D:\task_4> cd "d:\task_4"
PS D:\task_4> & .\"Q2.exe"
1st Method of Array Initilization
array[0] [0] = 2
array[0] [1] = 4
array[0] [2] = 2
-----
array[1] [0] = 56
array[1] [1] = 78
array[1] [2] = 86
-----
array[2] [0] = 54
array[2] [1] = 33
array[2] [2] = 22
-----
Values of Array
2 4 2
56 78 86
54 33 22
PS D:\task_4> 
```