

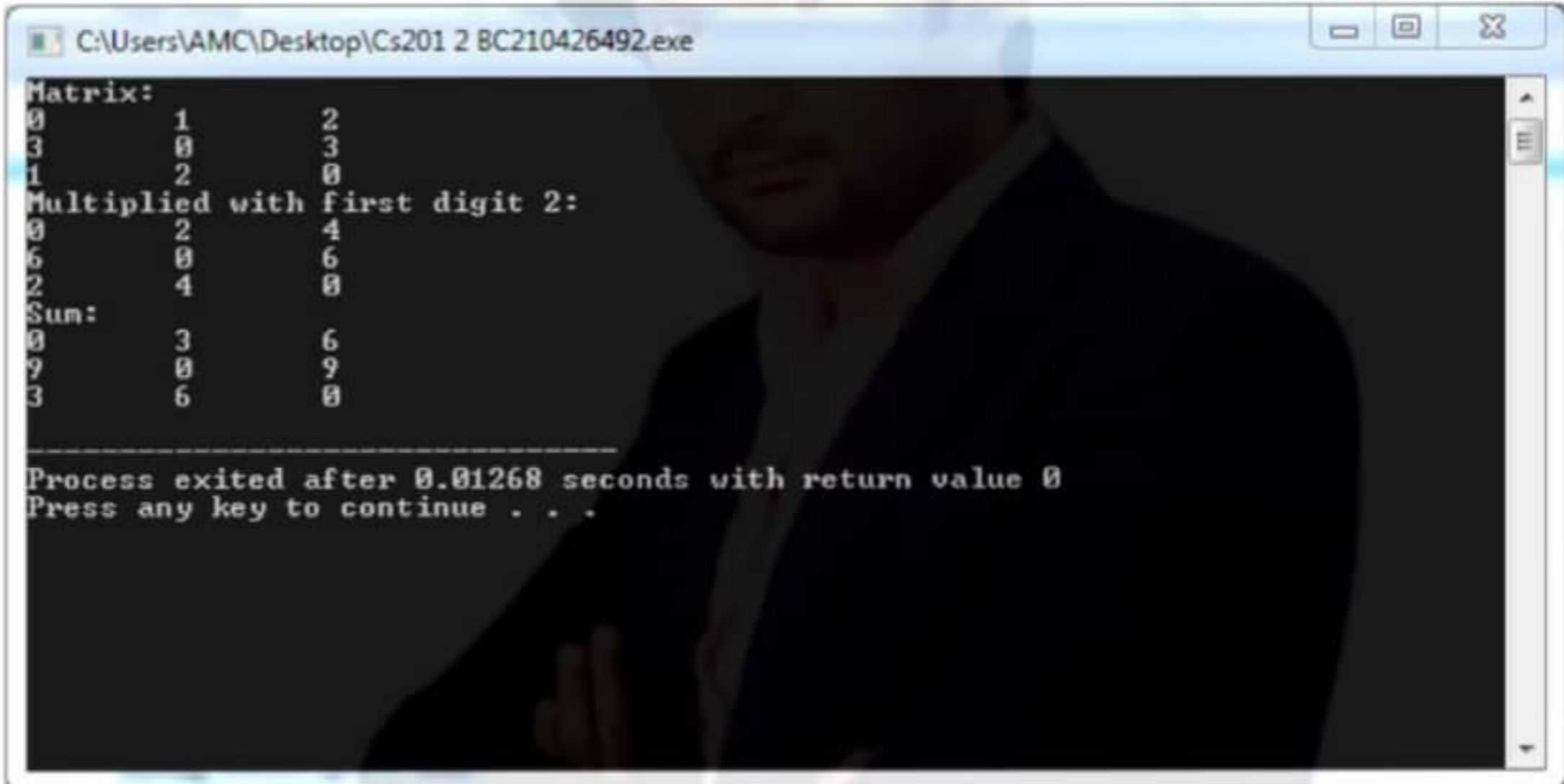
## Cs201p assignment No:02 Spring 2022

Writtent By Sir Ray Afzal

Whatsapp:0301-681299

### LMS Handling

ورچوئل یونیورسٹی کی اسائنمنٹ بنوانے کے لیے رابطہ کر سکتے ہیں



The screenshot shows a Windows command prompt window titled "C:\Users\AMC\Desktop\Cs201 2 BC210426492.exe". The output of the program is as follows:

```
Matrix:
0 1 2
3 0 3
1 2 0
Multiplied with first digit 2:
0 2 4
6 0 6
2 4 0
Sum:
0 3 6
9 0 9
3 6 0
```

-----  
Process exited after 0.01268 seconds with return value 0  
Press any key to continue . . .

```
#include<iostream>
#define ROW 3
#define COL 3
using namespace std;
class AddMatrix{
private:
int matrix[ROW][COL];public:
AddMatrix(){
for(int i=0;i<ROW;i++){
for(int j=0;j<COL;j++){
matrix[i][j]=0;
}
}
}
AddMatrix(int array[]){
setMatrix(array);
}
```

```

void setMatrix(int array []){
for(int i=0;i<ROW;i++){

for(int j=0;j<COL;j++){
matrix[i][j]=array[COL*i+j];
}
}
}
AddMatrix operator + (AddMatrix & x){
AddMatrix y;
{
for(int j=0;j<COL;j++){
y.matrix[i][j]=matrix[i][j]+x.matrix[i][j];
}
}return y;
}
friend AddMatrix Multiply(AddMatrix & x, int id){
AddMatrix y;
for(int i=0;i<ROW;i++){
for(int j=0; j<COL;j++){
y.matrix[i][j]=id*x.matrix[i][j];
}
}
return y;

}
void display(AddMatrix & result){
for(int i=0;i<ROW;i++){
for(int j=0;j<COL;j++){
cout<<result.matrix[i][j]<<"\t";
}
cout<<endl;
}
};
int main(){
int array[]={0,1,2,3,0,3,1,2,0};
AddMatrix matrix(array), multiplied, sum;
sum = multiplied + matrix;cout<<"Matrix:"<<endl;
matrix.display(matrix);
cout<<"Multiplied with first digit 2: "<<endl; // Vu Id First Digit Add
multiplied.display(multiplied);
cout<<"Sum: "<<endl;
sum.display(sum);
return 0;
}

```