

FUNDAMENTALS OF PROGRAMMING
HOME TASK # 6
ABDUL MOIZ 464834 SECTION B

```
#include<iostream>

using namespace std;

int main()
{
    // Task # 2

    int row;

    cout << "Enter the number of rows : ";

    cin >> row;

    for (int i = 1; i <= row; i++)
    {
        for (int j = 1; j <= i; j++)

        {
            cout << j;

        }

        cout << endl;

    }

    return 0;

}
```

```
Include<iostream>
Microsoft Visual Studio Debug Console
Enter the number of rows : 6
1
12
123
1234
12345
123456

E:\Mechanical Engineering\Semester 1\FOP\Assignments
To automatically close the console when debugging stops,
press any key to close this window . . .
```

{// Task # 3

int row,n=1,x=0;

cout << "Enter the number of rows : ";

cin >> row;

for (int i = 0; i <= row; i++)

{

if (i == 0)

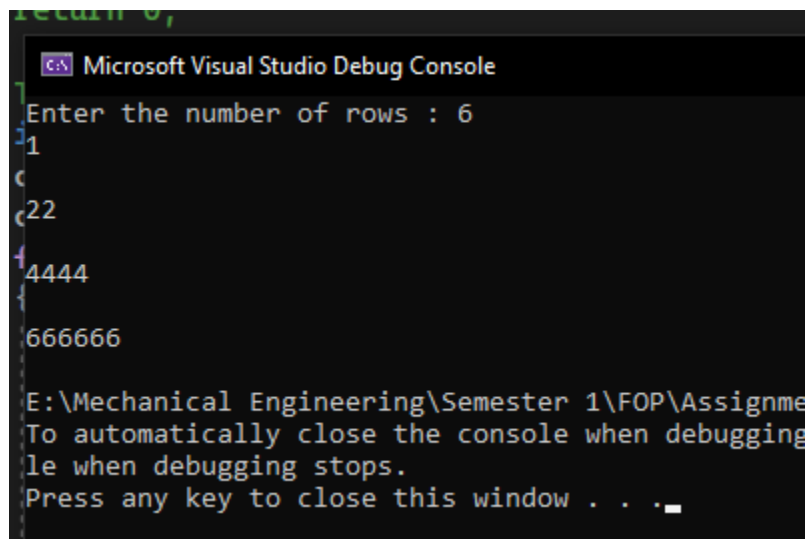
{

cout <<n;

}

for (int j = 1; j <= i; j++)

```
{  
if (i % 2 == 0)  
{  
cout << i;  
}  
else  
{  
continue;  
}  
}  
cout << endl;  
}  
return 0;  
}
```



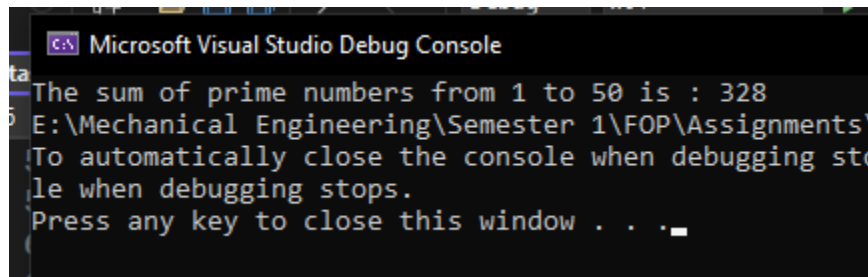
The screenshot shows the Microsoft Visual Studio Debug Console. The title bar reads "Microsoft Visual Studio Debug Console". The console output is as follows:

```
Enter the number of rows : 6  
1  
2  
22  
4  
4444  
6  
666666  
  
E:\Mechanical Engineering\Semester 1\FOP\Assignme  
To automatically close the console when debugging  
le when debugging stops.  
Press any key to close this window . . .
```

```
{// TASK # 1
int a, b, c,num;
num = 1;
c = 50;
a = 0;
while (num < c)
{
b = 0;

for (int i = 2; i <= num / 2; i++)
{
if (num % i == 0)
{
b = 1;
break;
}
}
if (b == 0)
{
a = a + num;
}
num++;
}
```

```
cout << "The sum of prime numbers from 1 to 50 is : " << a - 1;  
return 0;  
}
```



The screenshot shows the Microsoft Visual Studio Debug Console window. The title bar reads "Microsoft Visual Studio Debug Console". The console output displays the result of the program: "The sum of prime numbers from 1 to 50 is : 328". Below this, there is a file path "E:\Mechanical Engineering\Semester 1\FOP\Assignments\" and a message "To automatically close the console when debugging stops." followed by "Press any key to close this window . . .".

```
ta  
5  
The sum of prime numbers from 1 to 50 is : 328  
E:\Mechanical Engineering\Semester 1\FOP\Assignments\  
To automatically close the console when debugging stops.  
Press any key to close this window . . .
```