C++ ASSIGNMENT 1.3

Name:- Prasad Bhandare.

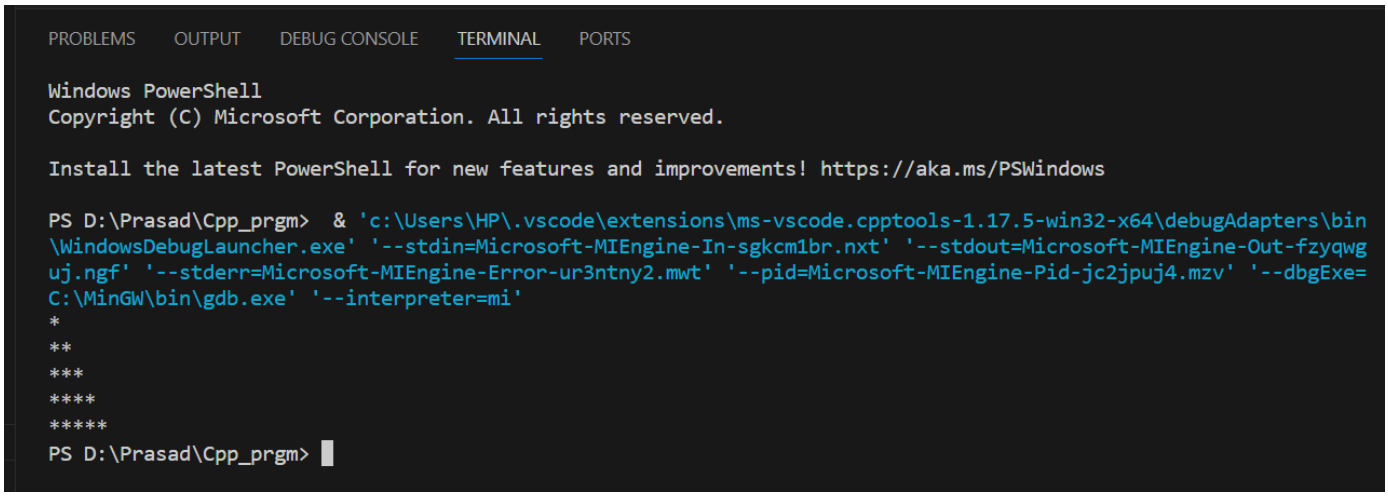
Q) WAP to print following kind of patterns:

1)
```
*
**
***
****
******
```

Code:--

```
#include <iostream>
using namespace std;
int main() {
for (int i = 1; i <= 5; i++) {
for (int j = 1; j <= i; j++) {
cout << "*";
}
cout <<endl;
}
return 0;
}
```

Output:--



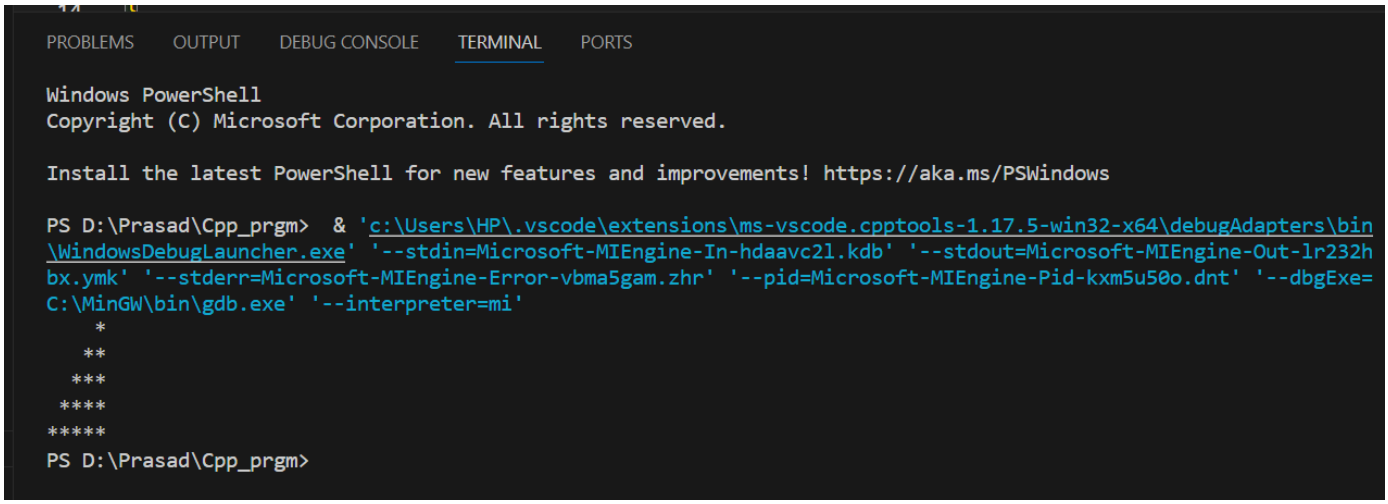
2)
```
     *
    **
   ***
  ****
******
```

Code:--

```
#include <iostream>
using namespace std;
int main() {
for (int i = 1; i <= 5; i++) {
```

```
for (int k = 5-i; k>0; k--)
cout<<" ";
for(int j=1;j<=i;j++)
{
cout << "*";
}
cout <<endl;
}
return 0;
}
```

Output:--

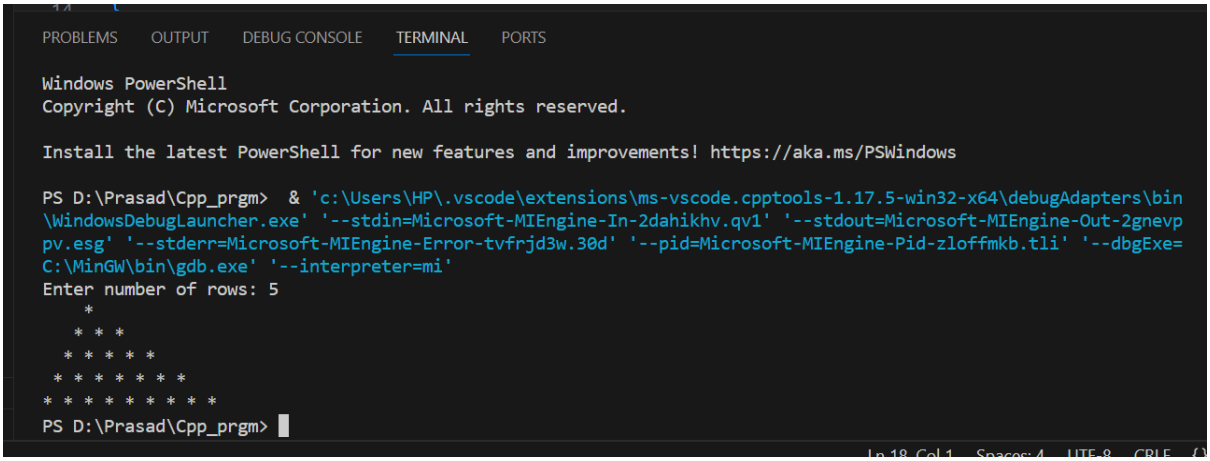


3)
```
    *
   ***
  *****
 *******
*********
```

Code:--

```
#include <iostream>
using namespace std;
int main() {
int sp, row;
cout <<"Enter number of rows: ";
cin >> row;
for(int i = 1, k = 0; i <= row; ++i, k = 0) {
for(sp = 1; sp <= row-i; ++sp) {
cout <<" ";
}
while(k != 2*i-1) {
cout << "* ";
++k;
}
cout << endl;
}
return 0;}
```

Output:--

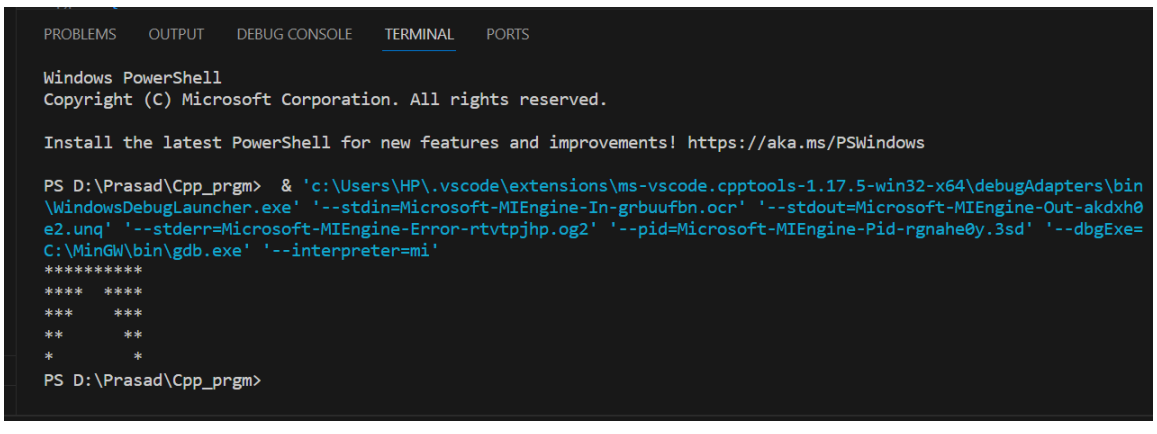


4) *********
**** ****
*** ***
** **
* *

Code:--

```
#include <iostream>
using namespace std;
int main() {
int rows = 5;
for (int i = 0; i < rows; i++) {
for (int j = 0; j < rows - i; j++) {
cout << "*";
}
for (int k = 0; k < i; k++) {
cout << " ";
}
for (int l = 0; l < i; l++) {
cout << " ";
}
for (int m = 0; m < rows - i; m++) {
cout << "*";
}
cout << endl;
}
return 0;
}
```

Output:--

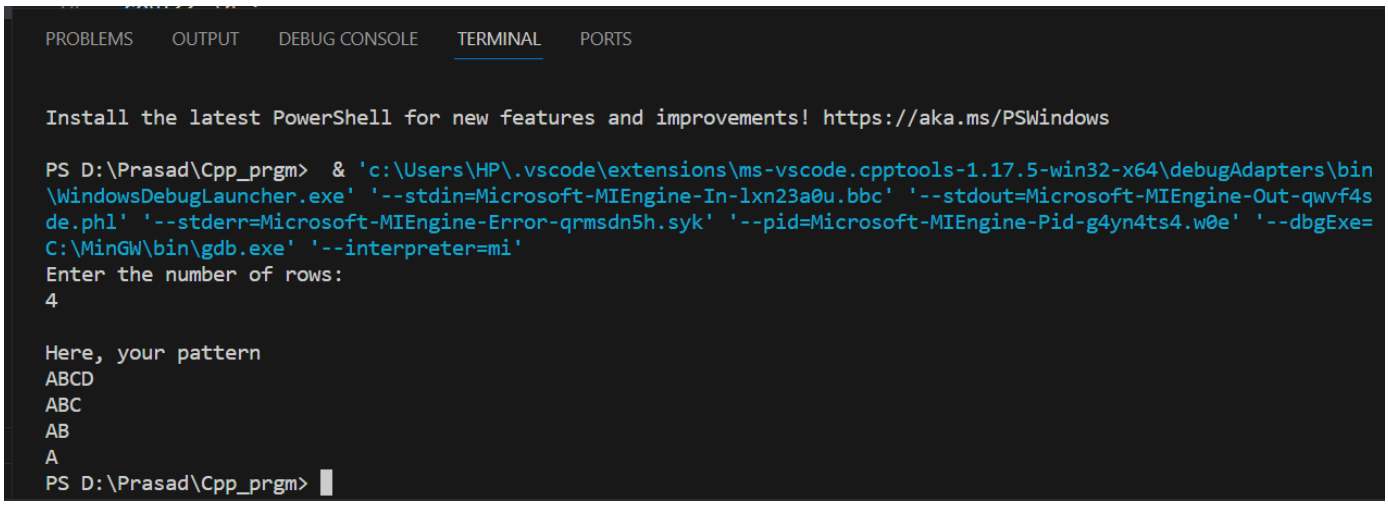


5) ABCD
ABC
AB
A

Code:--

```
#include <iostream>
using namespace std;
int main()
{
int i,j,rows;
cout << "Enter the number of rows:" << endl;
cin>>rows;
cout<<"\n";
cout<<"Here, your pattern\n";
for(i=rows; i>=1; i--){
for(j=1; j<=i; j++){
cout<<((char)(j+64));
}
cout<<"\n";
}
return 0;
}
```

Output :--



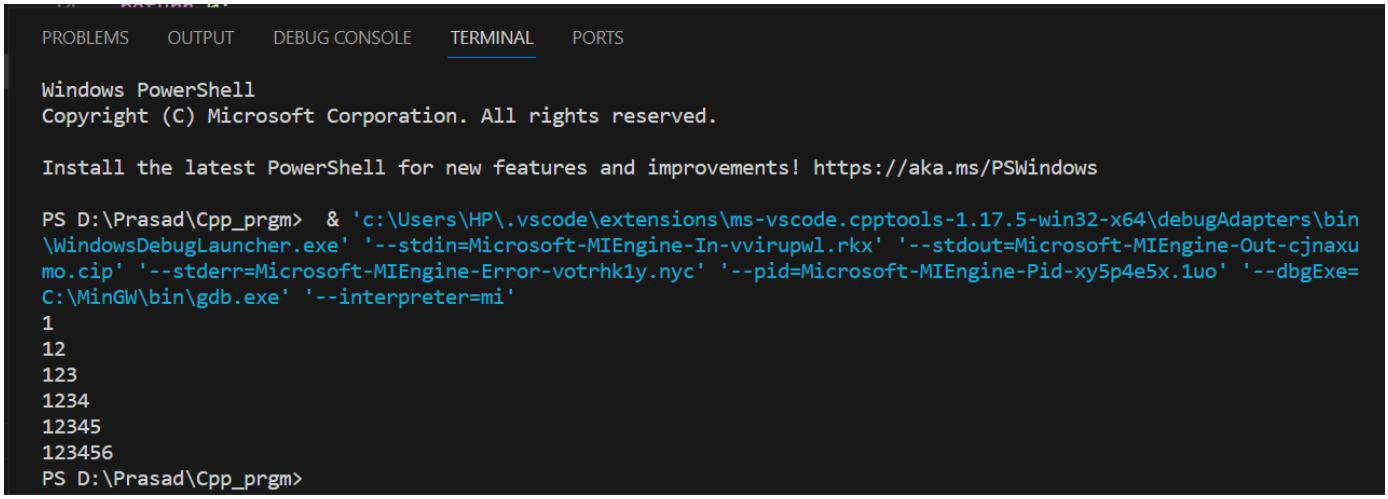
6) 1
12
123
1234
12345
123456

Code:--

```
#include<iostream>
using namespace std;
int main()
{
int i, j;
```

```
for(i=1; i<=6; i++)
{
for(j=1; j<=i; j++)
{
cout<<j;
}
cout<<endl;
}
return 0;
}
```

Output:--



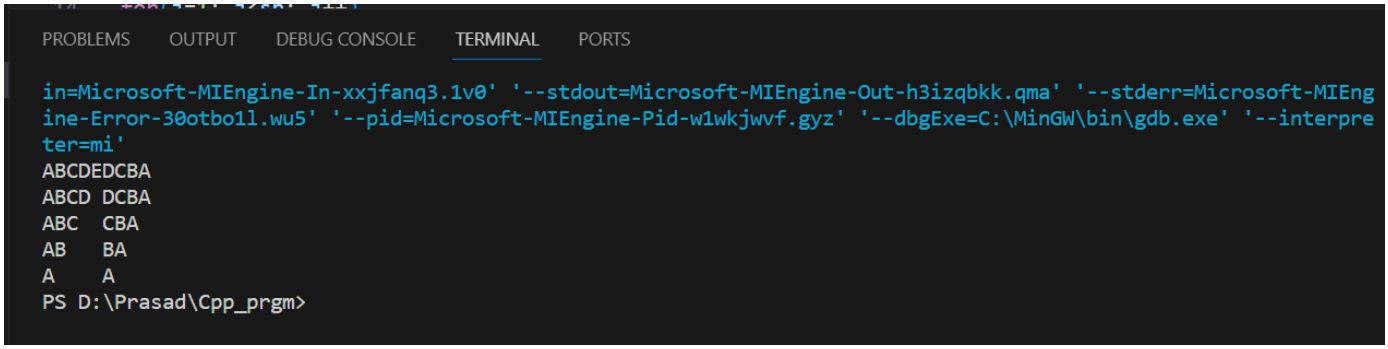
7) ABCDEDCBA

ABCD DCBA
ABC CBA
AB BA
A A

Code:--

```
#include <iostream>
using namespace std;
int main()
{
int i,j;
char CH='E';
int sp=1;
for(i=1; i<=5; i++)
{
for(j='A'; j<=CH; j++)
cout<<((char)(j));
if(i==1)
cout<<"\b";
for(j=1; j<sp; j++)
cout<<" ";
for(j=CH; j>='A'; j--)
cout<<((char)(j));
cout<<endl;
CH--;
sp++;
}
return 0;
}
```

Output:--


PROBLEMS
OUTPUT
DEBUG CONSOLE
TERMINAL
PORTS
in=Microsoft-MIEngine-In-xxjfanq3.1v0' '--stdout=Microsoft-MIEngine-Out-h3izqbkk.qma' '--stderr=Microsoft-MIEng
ine-Error-30otbo1l.wu5' '--pid=Microsoft-MIEngine-Pid-w1wkjwvf.gyz' '--dbgExe=C:\MinGW\bin\gdb.exe' '--interpre
ter=mi'
ABCDEDCBA
ABCD DCBA
ABC CBA
AB BA
A A
PS D:\Prasad\Cpp_prgm>