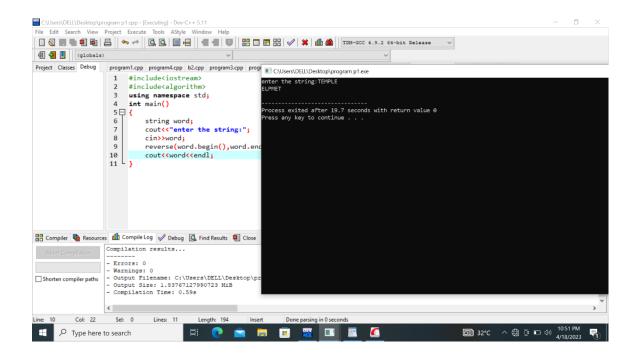
ASSIGNMENT-4

1. Write a program to reverse a word using loop? Sample Input: String: TEMPLE Sample Output: Reverse String: ELPMET Test cases: 1. SIGN UP 2. AT-LEAST 3. 1245 4. !@#\$% 5. 145*999=144855 Souce sode: #include<iostream> #include<algorithm> using namespace std; int main() { string word; cout<<"enter the string:";</pre> cin>>word; reverse(word.begin(),word.end()); cout<<word<<endl;</pre> }

Output:

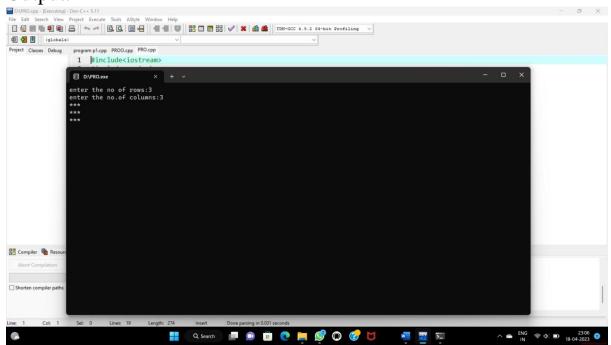


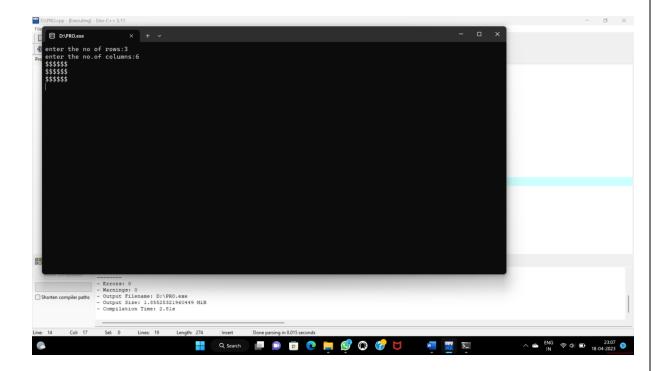
2. Write a program to print square star and rectangle dollar pattern?

```
Source code:
#include<iostream>
#include<conio.h>
using namespace std;
int main()
{
    int r,c,i,j,b;
    cout<<"enter the no of rows:";
    cin>>r;
    cout<<"enter the no.of columns:";
    cin>>c;
    for(i=0;i<r;i++)
    {
```

```
for(j=0;j<c;j++){
    cout<<"*";
}
cout<<"\n";
}
getch();</pre>
```

Output:





3. Write a program to count all the prime and composite numbers entered by the user.

Sample Input:

Enter the numbers

4

54

29

71

7

59

98

23

Sample Output:

Composite number:3

Prime number:5

Test cases:

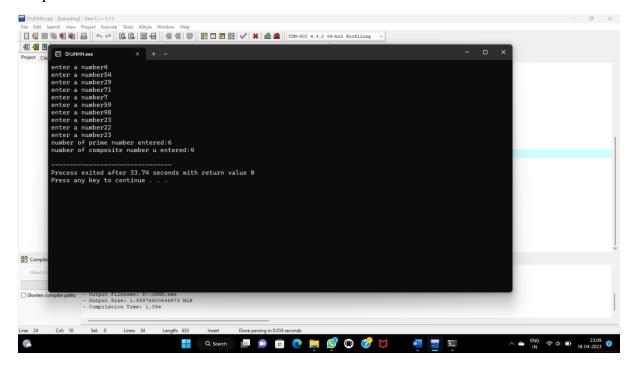
- 1. 33, 41, 52, 61,73,90
- 2. TEN, FIFTY, SIXTY-ONE, SEVENTY-SEVEN, NINE
- 3. 45, 87, 09, 5.0, 2.3, 0.4

```
4. -54, -76, -97, -23, -33, -98
           5. 45, 73, 00, 50, 67, 44
Source code:
#include<iostream>
#include<cmath>
using namespace std;
bool isprime(int num){
    if(num \le 1){
       return false;
    }
    int sqrtnum=sqrt(num);
    for(int i=2;i<=sqrtnum;i++){</pre>
       if(num\%i==0){
              return false;
       }
    return true;
}
int main(){
    int num,primecount=0,compositecount=0;
    const int maxcount=10;
    while(count<maxcount){</pre>
       cout<<"enter a number";</pre>
       cin>>num;
       if(isprime(num)){
              primecount++;
       }
       else{
              compositecount++;
       count++;
```

```
cout<<"number of prime number entered:"<<pre>primecount<<endl;
cout<<"number of composite number u entered:"<<compositecount<<endl;
return 0;</pre>
```

Output:

}



4 Write a program to check the entered user name is valid or not. Get both the inputs from the user.

Sample Input:

Enter the user name: Saveetha@789

Reenter the user name: Saveetha@123

Sample Output:

User name is Invalid

Source code:

#include<iostream>

using namespace std;

int main()

```
{
    string a,b;
    cout<<"enter the string:";
    cin>>a;
    cout<<"reenter the string:";
    cin>>b;
    if(a==b){
        cout<<"user name is valid";
    }
    else{
        cout<<"username is invalid";
}</pre>
```

Output:

