```
1) Write a program to check whether a number is prime or not.
code-
#include<iostream>
using namespace std;
main()
{
    int n , count=0;
cout<<"enter the number";</pre>
    cin>>n;
    for(int i=1;i<=n;i++)</pre>
        if(n%i==0)
        {
        count ++;
        }
    if (count==2){
        cout<<"Prime";</pre>
    }
    else{
        cout<<"not prime";</pre>
    }
}
output-
enter the number4
not prime
2)Write a program to generate first N prime numbers. Accept N from user.
code-
#include<iostream>
using namespace std;
main()
{
    int a,b , count=0;
    cout<<"Enter 1stnumber";</pre>
    cin>>a;
    cout<<"Enter 2nd number";
    cin>>b;
    for(int i=a;i<=b;i++)</pre>
       if(b%i==0)
        {
        count ++;
        }
    if (count==2){
        cout<<"Prime";
    else{
        cout<<"not prime";</pre>
    }
output-
Enter 1stnumber3
Enter 2nd number7
not prime
```

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3) Write a program to generate following pyramid
Α
AΒ
ABC
.....Z
code-
#include <iostream>
using namespace std;
int main()
{
    char ch='A';
    int n;
    cout<<"Enter the row";
    cin>>n;
    for(int i=1;i<=n;i++)
  {
     for(int j=0;j<i;j++)
        cout<<char('A'+ j);</pre>
     }
      cout<<endl;
  }
}
output-
Enter the row4
AB
ABC
ABCD
4) Write a menu driven program to perform mathematical operations on two
numbers.
1. Add
2. Sub
3. Mul
4. Div
accept the menu option and numbers form user.
code-
#include <iostream>
using namespace std;
int main(){
      int num1, num2;
      cout << "Enter the value of num1 : ";</pre>
      cin >> num1;
      cout << "Enter the value of num2 : " ;</pre>
      cin >> num2;
      int sum = num1 + num2;
      cout << " SUM : " << sum << "\n";
      int sub = num1 - num2;
      cout <<" Sub : " << sub << "\n";
      int mul = num1 * num2;
      cout << " Mul : "<<mul<<"\n";
      float div = num1 / num2;
cout << " div : " << div <<"\n";</pre>
```

```
if (div == 0) {
    cout << "Error";</pre>
             exit(0);
       return 0;
}
output-
Enter the value of num1 : 50
Enter the value of num2 : 2
 SUM : 52
 Sub : 48
 Mul : 100
 div : 25
5) Generate following pyramid , accept the level from the user as input
1 2
1 2 3
..... 1.................N
where N is the level accepted as input
code-
#include <iostream>
using namespace std;
int main() {
    int n;
    cout<<"enter row";</pre>
    cin>>n;
      for (int i = 1; i < n; i++) {
    for (int j = 1; j <= i; j++) {</pre>
                    cout <<j<<" ";
             }
             cout <<endl;</pre>
       return 0;
}
output-
enter row5
1
1 2
1 2 3
1 2 3 4
```