

## CPP ASSIGNMENT 2

### QUESTION 1)

```
#include <iostream>

using namespace std;

int main() {

    int n, i;

    cout<< "ENTER THE NUMBER:"<<endl;

    cin>> n;

    bool flag=1;

    if(n==0 || n==1)
    {
        flag=0;
    }

    for(i = 2; i<=n/2; ++i){

        if(n%i==0){

            flag =0;

            break;

        }

    }

    if(flag){

        cout<<"PRIME";

    }else{

        cout<<"NOT PRIME";

    }

    return 0;

}
```

## OUTPUT:

ENTER THE NUMBER:

13

PRIME

=== Code Execution Successful ===

## QUESTION 2)

```
#include <iostream>
```

```
using namespace std;
```

```
int main() {
```

```
    int num;
```

```
    cout << "Enter a number till which you want to print prime number: ";
```

```
    cin >> num;
```

```
    for(int i =2; i<=num; i++){
```

```
        bool flag =1;
```

```
        for (int j =2; j<=i/2; ++j){
```

```
            if(i%j==0){
```

```
                flag = 0;
```

```
                break;
```

```
            }
```

```
        }
```

```
        if(flag){
```

```
            cout<< i << " ";
```

```
        }
```

```
    }
```

```
    return 0;
}
```

### OUTPUT:

Enter a number till which you want to print prime number: 20

2 3 5 7 11 13 17 19

=== Code Execution Successful ===

### QUESTION 3)

```
#include <iostream>
using namespace std;
```

```
int main() {
```

```
    int n=5;
    for(int i = 1 ; i < n ; i++){
```

```
        char ch = 'A';
        for(int j=1 ; j<= i ;j++){
            cout<<ch<< " ";
            ch++;
        }
        cout<<endl;
    }
```

```
    return 0;
}
```

## OUTPUT:

A

A B

A B C

A B C D

=== Code Execution Successful ===

## QUESTION 4)

```
#include <iostream>
using namespace std;
int main(){
    int num1, num2;
    cout << "Enter the value of num1 : ";
    cin >> num1;
    cout << "Enter the value of num2 : " ;
    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";
```

```
        if (div == 0) {  
            cout << "Error";  
            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

=== Code Execution Successful ===

### QUESTION 5)

```
#include <iostream>  
  
using namespace std;  
  
int main(){  
    int num;  
  
    cout<<"Enter the rows: ";  
  
    cin>> num;  
  
    for(int row = 1; row <= num ; row ++){  
        for(int col = 1; col<=row; col++)  
        {
```

```
        cout<<col<< " ";  
    }  
    cout<<endl;  
}  
return 0;  
}
```

### OUTPUT:

Enter the rows: 5

1

1 2

1 2 3

1 2 3 4

1 2 3 4 5

=== Code Execution Successful ===