

Assignment:2.1

//Write a program to check whether a number is prime or not.

```
#include<iostream>
using namespace std;
int main()
{
    int count=0;
    int num;
    cout<< "enter the number"<<endl;
    cin>>num;

    for(int i=1;i<=num;i++){
        if(num%i==0){
            count=count+1;
        }
    }
    if(count==2){
        cout<<num <<" is prime number ."<<endl;
    }
    else {
        cout << num<<" is non prime ."<<endl;
    }
}
```

Assignment:2.2

// Write a program to generate first N prime numbers. Accept N from user.

```
#include<iostream>
using namespace std;
int main()
{
    int n,c=2,i;
    cout<<"enter the length of prime number :=";
    cin>>n;
    while(n){
        for(i=2;i<c;i++){
            if(c%i==0)
                break;

            if(c==i){
                cout<<c<<endl;
                n--;
            }
            c++;
        }
        return 0;
    }
}
```

Assignment:2.3

// Write a program to generate following pyramid

//A

```

//AB
//ABC
//..... A.....Z
#include<iostream>
using namespace std;
int main()
{
    char i,j;

    for(i='A';i<='Z';i++){
        for(j='A';j<=i;j++){
            cout<<j <<" ";

        }
        cout<<endl;
    }
}

```

Assignment:2.4

//Write a menu driven program to perform mathematical operations on two numbers.

//1. Add

//2. Sub

//3. Mul

//4. Div

//5. Exit

//accept the menu option and numbers form user.

```

#include<iostream>
using namespace std;
int main()
{ int n,num1,num2;
    cout<<"Enter the two number :"<<endl;
    cin>>num1;
    cin>>num2;
    cout<<"enter \n 1 to ADD \n 2 to subtract \n 3 to multiply \n 4 to divide"<<endl;
        cin>>n;
    switch(n)
    {
        case 1:cout<<"The add ="<<num1+num2<<endl;
            break;
        case 2:cout<<"The sub ="<<num1-num2<<endl;
            break;
        case 3:cout<<"The multiply ="<<num1*num2<<endl;
            break;
        case 4:cout<<"The divide ="<<num1/num2<<endl;
            break;
        default : cout<< "the choice is Wrong please select correct option" <<endl;
    }
}

```

Assignment:2.5

//5. Generate following pyramid , accept the level from the user as input

//1

//1 2

//1 2 3

//..... 1.....N

// where N is the level accepted as inputs

```
#include<iostream>
```

```
using namespace std;
```

```
int main()
```

```
{
```

```
    int n;
```

```
    cout<<"enter the level of pattern :=";
```

```
    cin>>n;
```

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

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

```
            cout<<j <<" ";
```

```
        }
```

```
    cout<<endl;
```

```
}
```

```
}
```