

Amir ali

Enrollement : 01-131232-011

Bse 1A

Task 1

Code:

```
#include<iostream>

using namespace std;

int main(){

    int i, k, j, num;

    char choice, y,n;

    cout<<"press y to get prime number in a range:"<<endl;

    cout<<"press n to check if it is prime number or not"<<endl;

    cout<<"Enter choice"<<endl;

    cin>>choice;

    if(choice=='y'){

        cout << "enter a number" << endl;

        cin >> num;

        cout << "Prime Numbers Between 1 to num:\n";

        for (i = 1; i <= num; i++)

        {

            for (j = 2; j < i; j++)

            {

                if (i % j == 0)

                {
```

```

        k++;
    }
}
if (k == 0 && i != 1)
    cout << i << endl;

k = 0;
}
cout << endl;

}

if(choice=='n'){
    bool is_prime = true;

    cout << "Enter a positive integer: ";
    cin >> n;

    if (n == 0 || n == 1) {
        is_prime = false;
    }
    for (i = 2; i <= n/2; ++i) {
        if (n % i == 0) {
            is_prime = false;
            break;
        }
    }
}

```

```
}
```

```
if (is_prime)
```

```
    cout << n << " is a prime number";
```

```
else
```

```
    cout << n << " is not a prime number";
```

```
}
```

```
return 0;
```

```
}
```

Screenshot:

```
2 using namespace std;
3 int main(){
4     int i, k, j, num;
5     char choice, y,n;
6     cout<<"press y to get prime number in a range:"<<endl;
7     cout<<"press n to check if it is prime number or not"<<endl;
8     cout<<"Enter choice"<<endl;
9     cin>>choice;
10    if(choice=='y'){
11        cout << "enter a number" << endl;
12        cin >> num;
13        cout << "Prime Numbers Between 1 to num:\n";
14        for (i = 1; i <= num; i++)
15        {
16            for (j = 2; j < i; j++)
17            {
18                if (i % j == 0)
19                {
20
21                    k++;
22                }
23            }
24            if (k == 0 && i != 1)
25                cout << i << endl;
26            k = 0;
27        }
28        cout << endl;
29    }
30    if(choice=='n'){
31        bool is_prime = true;
32
33
34        cout << "Enter a positive integer: ";
```

enter a number
20
Prime Numbers Between 1 to num:
2
3
5
7
11
13
17
19

Task 2

Code:

```
#include<iostream>

using namespace std;

int main(){

    int days,quantity,t,fine;

    cout<<" let us know how many days and how much books you need"<<endl<<endl;

    cout<<"enter days"<<endl;

    cin>>days;

    cout<<"enter how many books:"<<endl;

    cin>>quantity;

    if(days>=6){

        t=(days-6);

        cout<<"your fine per day after due date will increase:"<<endl;

        fine+=250* quantity*t;  //1$ =250 Rs

        cout<<fine<<endl;

    }

    else

        cout<<"no fine for you have fun :)"<<endl;

    return 0;

}
```

Screen shot;

```
6  cout<< "let us know how many days and how much books you
7  cout<<"enter days"<<endl;
8
9  cin>>days;
10 cout<<"enter how many books:"<<endl;
11 cin>>quantity;
12
13
14 if(days>=6){
15     t=(days-6);
16     cout<<"your fine per day after due date will increase
17     fine+=250* quantity*t;    //1$ =250 Rs
18     cout<<fine<<endl;
19 }
20 else
21     cout<<"no fine for you have fun :)"<<endl;
22     return 0;
23
24
25
26 }
27
28
29
30
31
32
33
34
```

let us know how many days and how much books you need

enter days

12

enter how many books:

2

your fine per day after due date will increase:

3000

Js • GDB

...Program finished with exit code 0

Press ENTER to exit console.

