

Bahria University, Islamabad

Department of Software Engineering

Computer Programming Lab

(Fall-2023)

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075

Lab Journal: X

Date: 02-11-2023

Task No:	Task Wise Marks		Documentation Marks		Total Marks
	Assigned	Obtained	Assigned	Obtained	(20)
1	3				
2	3				
3	3		5		

4	3		
5	3		

Comments:

Signature

Program 01

```
#include<iostream>
using namespace std;
int main()
{
  int days, quantity, t, fine;
  cout<<"please tell us how many books do you want and how many days do you need"<<endl;
  cout<<"enter days"<<endl;
  cin>>days;
  cout<<"Enter the number of books"<<endl;</pre>
  cin>>quantity;
  if(days > = 7){
     cout<<"your fine per day after due date will be charged"<<endl;</pre>
     fine+=300*quantity*t;
     cout<<fine<<endl;
  }else
  cout<<"there is no fine for you ";</pre>
```

```
return 0;
```

Screenshots

```
#include(iostream>
using namespace std;
int main()

int days,quantity,t,fine;
cout<<"please tell us how many books do you want and how many days do you need"<<endl;
cout<<"enter days"<<endl;
cin>>days;
cout<<"Enter the number of books"<<endl;
cin>>quantity;

if(days>=7){
    cout<<"your fine per day after due date will be charged"<<endl;
    fine+=300*quantity*t;
    cout<<fifine<<endl;
}else
cout<<"there is no fine for you ";
return 0;</pre>
```

```
please tell us how many books do you want and how many days do you need
enter days
2
Enter the number of books
03
there is no fine for you
...Program finished with exit code 0
Press ENTER to exit console.
```

Program 2

```
bool isPrime(int num) {
  if (num <= 1)
    return false;</pre>
```

#include <iostream>

```
for (int i = 2; i \le num/2; ++i) {
    if (num % i == 0) {
       return false;
     }
  }
  return true;
}
void findPrimesInRange(int lower, int upper) {
  std::cout << "Prime numbers in the range " << lower << " to " << upper << " are:\n";
  for (int i = lower; i \le upper; ++i) {
    if (isPrime(i)) {
       std::cout << i << " ";
     }
int main() {
  int choice;
  std::cout << "Menu:\n";
  std::cout << "1. Find Prime Numbers in a Range\n";
  std::cout << "2. Check if a Number is Prime\n";
```

```
std::cout << "Enter your choice: ";</pre>
std::cin >> choice;
if (choice == 1) {
  int lower, upper;
  std::cout << "Enter the lower bound of the range: ";
  std::cin >> lower;
  std::cout << "Enter the upper bound of the range: ";
  std::cin >> upper;
  findPrimesInRange(lower, upper);
} else if (choice == 2) {
  int num;
  std::cout << "Enter a number: ";
  std::cin >> num;
  if (isPrime(num)) {
     std::cout << num << " is a prime number.\n";
  } else {
     std::cout << num << " is not a prime number.\n";
  }
} else {
  std::cout << "Invalid choice.\n";</pre>
```

```
}
return 0;
```

Screenshots

```
Menu:
1. Find Prime Numbers in a Range
2. Check if a Number is Prime
Enter your choice: 1
Enter the lower bound of the range: 2
Enter the upper bound of the range: 3
Prime numbers in the range 2 to 3 are:
2 3
```