



NATIONAL UNIVERSITY OF SCIENCES AND TECHNOLOGY

CS-114-FUNDAMENTAL OF PROGRAMING LAB MANUAL # 6

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➤ **SECTION:** B

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TASK # 1

CODE:

```
#include <iostream>

using namespace std;

int main(){
    int n,i,b,j;

    i=1;

    cout<<"Please enter the number of rows: ";

    cin>>n;

    n=n+1;

    while(i<=n){
        b=1;

        while(b<=n-i){

            cout<<" ";

            b++;

        }

        j=1;

        while(j<=i-1){

            cout<<j<<" ";

            j++;

        }

        i++;

        cout<<"\n";

    }

    return 0;

}
```

RESULT:

```
Please enter the no. of rows: 5
1
12
123
1234
12345

-----
Process exited after 1.107 seconds with return value 0
Press any key to continue . . .
```

TASK # 2

CODE:

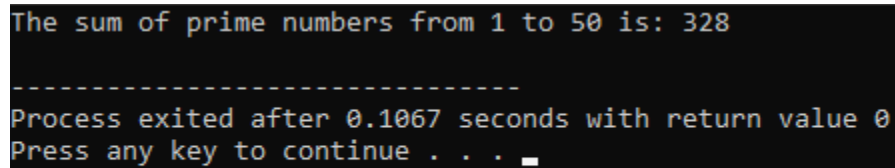
```
#include <iostream>
```

```
using namespace std;
```

```
int main() {
    int sum = 0;
    for (int i = 2; i <= 50; i++) {
        bool isPrime = true;
        for (int j = 2; j < i; j++) {
            if (i % j == 0) {
                isPrime = false;
                break;
            }
        }
        if (isPrime) {
            sum += i;
        }
    }
}
```

```
}  
  
cout << "The sum of prime numbers from 1 to 50 is: " << sum << endl;  
  
return 0;  
  
}
```

RESULT:



```
The sum of prime numbers from 1 to 50 is: 328  
  
-----  
Process exited after 0.1067 seconds with return value 0  
Press any key to continue . . . _
```

TASK # 3

CODE:

```
#include <iostream>  
  
using namespace std;  
  
int main(){  
  
    int a,j;  
  
    int i=0;  
  
    cout<<"Please enter the no. of rows: ";  
  
    cin>>a;  
  
    while(i<=a){  
  
        j=1;  
  
        while(j<=i){  
  
            cout<<i;  
  
            j=j+1;  
  
        }  
  
        cout<<"\n";  
  
        i=i+1;  
  
    }
```

```
return 0;  
}
```

RESULT:

```
Please enter the no. of rows: 5  
  
1  
22  
333  
4444  
55555  
  
-----  
Process exited after 0.6232 seconds with return value 0  
Press any key to continue . . .
```