### School Of Mechanical & Manufacturing Engineering, NUST



### Department of Mechanical Engineering

# CS-114 - Fundamental of Programing

## Lab manual # 06

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1

#### Code

### Output

```
enter the number of terms

5

the fibonacci series upto 5terms is 0,1,1,2,3

------
Process exited after 3.145 seconds with return va
Press any key to continue . . . _
```

### 2 Code

```
{
  int rows,x=1;
  cout<<"enter the number of rows"<<endl;
  cin>>rows;
  cout<<"Pascal's triangle"<<endl;
  for(int i=1;i<=rows;i++) {
      for(int j=1;j<=i;j++) {
            cout<<x<<" ";
            x=x+1;
      }
      cout<<endl;
}}</pre>
```

### Output

```
enter the number of rows

Pascal's triangle

1

2 3

4 5 6

7 8 9 10

11 12 13 14 15

Process exited after 37.62 seconds

Press any key to continue . . . _
```

#### Home tasks

1

#### Code

```
} E
      int sum=0;
      bool prime;
3
      for (int i=2;i<=50;i++) {
          prime=true;
3
          for(int j=2;j<i;j++) {
3
              if ( i%j==0) {
                  prime=false;
                  break;
3
          if(prime==true) { |
          sum=sum+i;
          }
      cout<<"sum of all prime nos between 1-50 is "<<sum;
```

### Output

```
sum of all prime nos between 1-50 is 328

Process exited after 0.874 seconds with retu
```

2

### Code

```
int rows=5;
for(int i = 1; i <= rows; ++i) {
    for(int j = 1; j <= i; ++j) {
        cout << j <<" ";
    }
    cout <<endl;
}
return 0;
}</pre>
```

### Output

```
1
1 2
1 2 3
1 2 3 4
1 2 3 4 5
Process exited aft
```

3

### Code

```
int x=1;
cout<<x;
for(int i = 0; i <= 6; i+=2) {
    for(int j = 1; j <= i; j++) {
        cout << i << " ";
        }
        cout << endl;
}
return 0;
}</pre>
```

## Output

```
D:\c++\hometask

1
2 2
4 4 4 4
6 6 6 6 6 6
d

Process exited a
```