National University of Sciences and Technology (NUST) Department of Mechanical Engineering (SMME)



Fundamentals of Programming (FOP)

Home Tasks

Lab Manual 6

By Muhammad Owais 461359

Teacher: Sir Muhammad Affan

Home Task-1:

```
#include<iostream>
using namespace std;
int main(){
    int num,count,sum=0;
    for(num = 1;num<=50;num++){
         count = 0;
         for(int i=2;i<=num/2;i++){</pre>
             if(num%i==0){
                 count++;
                 break;
             }
         if(count==0 && num!= 1)
            sum = sum + num;
    cout << "Sum of prime numbers from 1 to 50 is : " <<sum;
   return 0;
}
Sum of prime numbers from 1 to 50 is : 328
```

Home Task-2:

```
#include<iostream>
using namespace std;
int main() {
   int i,j;
   for(i=1;i<=5;i++)
   {
      for(j=1;j<=5;j++){
        if(j<=i){
            cout<<j<<" ";
      }
      else[]
      cout<<endl;
   }
   return 0;
}</pre>
```

```
1
1 2
1 2 3
1 2 3 4
1 2 3 4 5
```

Home Task-3:

```
#include<iostream>
using namespace std;
int main() {
    int i,j,k,l;
    for(i=1;i<=4;i++)
         if(i==1){
             cout<<icendl;
             continue;
         else[
             for(j=1;j<=6;j++){
                  for(k=2;k<=6;k+=2){
                      if(k==j){
                          for(l=1;l<=k;l++){
    cout<<k<< ";</pre>
                      else{
                           continue;
                      cout<<endl;
             cout<<endl;</pre>
    return 0;
}
```

```
1
2 2
4 4 4 4
6 6 6 6 6 6
```