

# **NATIONAL UNIVERSITY OF SCIENCES & TECHNOLOGY**

# SCHOOL OF MECHANICAL AND MANUFACTURING ENGINEERING

SEMESTER # 01

**CLASS: - ME 15 [SEC A]** 

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**Fundamentals of Programming** 

**HOME TASK 06** 

Date of Submission 29 NOV 2023

Submitted to MUHAMMAD AFFAN

### **QUESTION NUMBER 01**

```
Write a program using break or continue statement that only adds prime numbers from 1 to 50
and display the sum on screen.
HOME TASK 6 Q#03
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*/
#include <iostream>
using namespace std;
int main()
int sum=0;
                  //declaring sum equals to 0
for (int i=2; i<=50; i++) //using for loop for i
                                                                                  50
bool prime=true; //using boolean
for (int j=2; j<i; j++) //using for loop for j
                //is i is exactly divisible on j
 if (i%j==0)
 prime=false;
 break;
 if (prime)
 sum += i; //if number is prime then it will be added in sum
cout << "The sum of prime numbers from 1 to 50 is : " << sum << endl; //printing sum
return 0;
}
```

Write a program using break or continue statement that only adds prime numbers from 1 to 50 and display the sum on screen.

```
C:\Users\Dell\Desktop\C++\Lab\Home Tasks\Home Task No.06\Question No. 01.exe

The sum of prime numbers from 1 to 50 is : 328

Process exited after 0.07738 seconds with return value 0

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

# **QUESTION NUMBER 02**

```
HOME TASK 6 Q#02

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*/

#include <iostream>
using namespace std;
int main() {
  for (int i=1;i<=5;i++){ //using for loop for 5 rows
    cout<<endl; //going to next line

  for(int j=1;j<=i;j++) //using nested for loop for columns
  {
    cout<<j<<""; //printing j
    }
    cout<<endl; //next line.

}

return 0;
```

```
Write a program in C++ to create the following pattern.

1
12
123
1234
12345
```

# **QUESTION NUMBER 03**

```
HOME TASK 6 Q#03
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*/
#include <iostream>
using namespace std;
int main() {
cout<<1<<endl; //printing 1</pre>
for(int i=1; i<=7; i++){ //using for loop
        for(int j=1; j<=i; j++){ //using nested for}
                 if(i%2==0) //if i is exactly divisible by 2
                         cout<<i<" ";} //printing i
}
 cout<<endl;
                 //next line
}
return 0;
}
```

```
Write a C++ program to print:
1
2 2
4 4 4 4
6 6 6 6 6 6
```