



NUST
NATIONAL UNIVERSITY
OF SCIENCES & TECHNOLOGY

DEPARTMENT OF MECHANICAL ENGINEERING

Subject: Fundamentals of Programming

Assignment No. 4

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FIRST TASK

```
#include<iostream>

using namespace std;

int main(){

    int i =1;

    while(i<=150){

        if (i%10!=0) cout<<i<<" ";

        i++;

    }

    return 0;

}
```

OUTPUT

```
1 2 3 4 5 6 7 8 9 11 12 13 14 15 16 17 18 19 21 22 23 24 25 26 27 28 29 31 32 33 34 35 36 37 38 39 41 42 43 44 45 46 47
48 49 51 52 53 54 55 56 57 58 59 61 62 63 64 65 66 67 68 69 71 72 73 74 75 76 77 78 79 81 82 83 84 85 86 87 88 89 91 92
93 94 95 96 97 98 99 101 102 103 104 105 106 107 108 109 111 112 113 114 115 116 117 118 119 121 122 123 124 125 126 127
128 129 131 132 133 134 135 136 137 138 139 141 142 143 144 145 146 147 148 149
-----
Process exited after 0.1602 seconds with return value 0
Press any key to continue . . .
```

SECOND TASK

```
#include<iostream>

using namespace std;

int main(){

    int num;

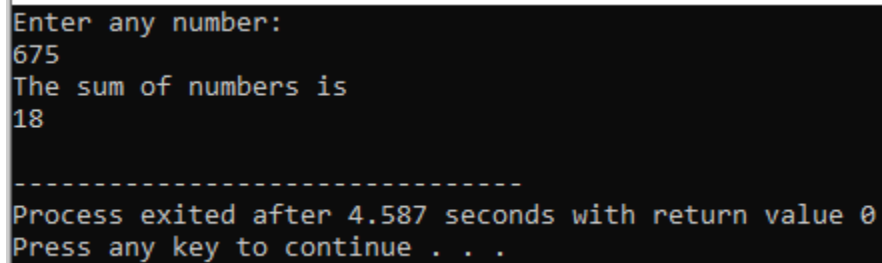
    cout<<"Enter any number: "<<endl;

    cin>>num;

    int sum_num=0;
```

```
while (num>0){  
    sum_num += num%10;  
    num/=10;  
}  
cout<<"The sum of numbers is "<<endl<<sum_num<<endl;  
return 0;  
}
```

OUTPUT



```
Enter any number:  
675  
The sum of numbers is  
18  
-----  
Process exited after 4.587 seconds with return value 0  
Press any key to continue . . .
```

THIRD TASK

```
#include<iostream>  
  
using namespace std;  
  
int main(){  
    int num;  
  
    cout<<"Enter any number: "<<endl;  
  
    cin>>num;  
  
    int fac=0;  
  
    for (int i=1; i<=num/2; i++){  
        if(num%i==0) fac++;  
    }  
  
    if (fac==1) cout<< "It is a prime number"<<endl;
```

```
else cout<<"It is not a prime number"<<endl;
return 0;
}
```

OUTPUT

```
Enter any number:
5
It is a prime number

-----
Process exited after 3.002 seconds with return value 0
Press any key to continue . . .
```

```
Enter any number:
10
It is not a prime number

-----
Process exited after 4.406 seconds with return value 0
Press any key to continue . . .
```