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Section:

a

Reg No:

2021 BSE 032

Course:

Programming

Fundamentals

LAB-06

Sample

Problem#1

```
#include "stdafx.h"

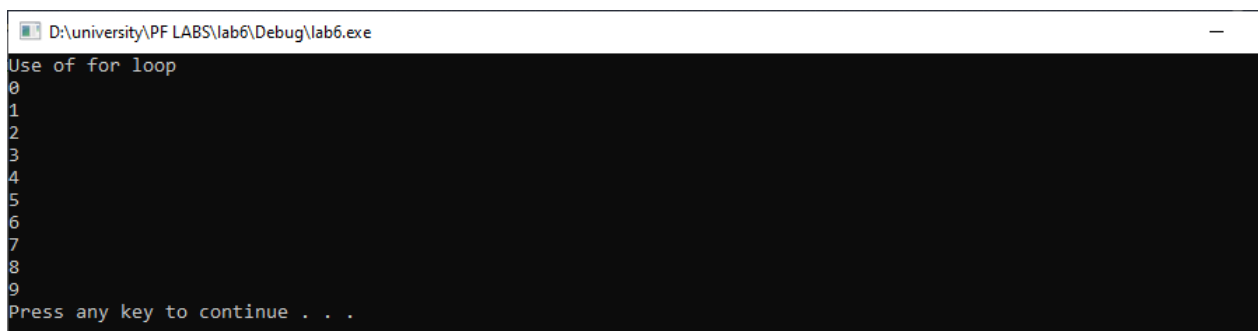
#include<iostream>

using namespace

std;

int _tmain(int argc, _TCHAR* argv[])
{
    cout<<"Use of for loop"<<endl;
    int i;
    for(i=0;i<10;i++)
    {cout<<i<<endl;
    }
    system("pause");
    return 0;
}
```

Output



```
D:\university\PF LABS\lab6\Debug\lab6.exe
Use of for loop
0
1
2
3
4
5
6
7
8
9
Press any key to continue . . .
```

Sample problem

#2

```
#include "stdafx.h"

#include<iostream>

using namespace std;
```

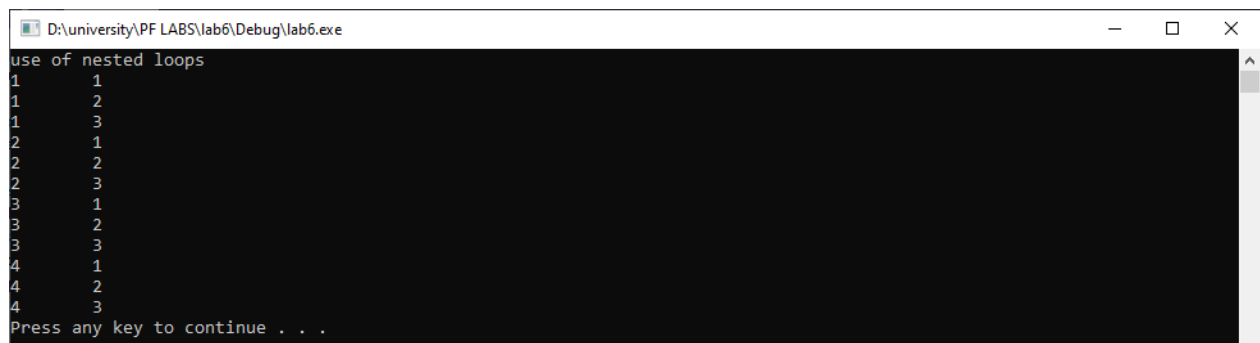
```
int _tmain(int argc, _TCHAR* argv[])
```

```

{. cout<<"use of nested
loops"<<endl; for(int i=1;i<=4;i++)
{
for(int j=1;j<=3;j++)
{
cout<<i<<"\t"<<j<<endl;
}
}
system("pause");
return 0;
}

```

Output



```

D:\university\PF LABS\lab6\Debug\lab6.exe
use of nested loops
1      1
1      2
1      3
2      1
2      2
2      3
3      1
3      2
3      3
4      1
4      2
4      3
Press any key to continue . . .

```

Sample program#

```

03 #include "stdafx.h"
#include<iostream>
using namespace std;
int _tmain(int argc, _TCHAR* argv[])
{ int n, i, count=0;
cout << "Enter a positive integer: ";
cin >> n;
for(i=2;i<n;i++){

```

```

if(n%i==0)
{ count=1;
break;
}
}
if (count==0)
cout << "This is a prime
number"; else
cout << "This is not a prime number";
system("pause");
return 0;
}

```

Output



```

D:\university\PF LABS\lab6\Debug\lab6.exe
Enter a positive integer: 5
This is a prime number
Press any key to continue . . .

```

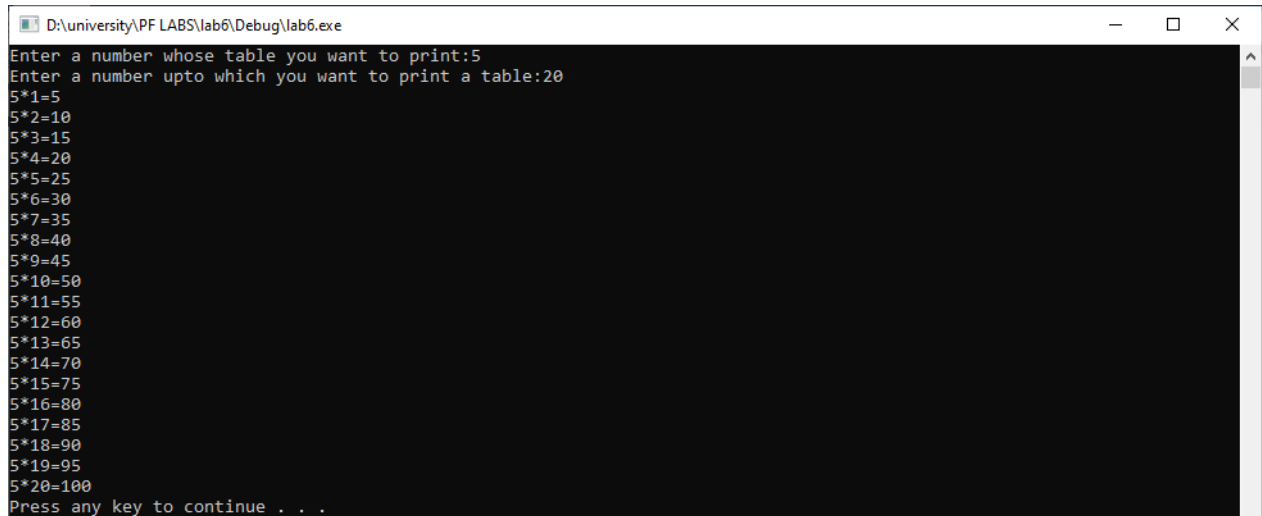
TASK#2

```

#include "stdafx.h"
#include<iostream>
using namespace
std;
int _tmain(int argc, _TCHAR* argv[])
{
    int n,i;
    cout<<"Enter a number whose table you want to print:";
    cin>>n;
    cout<<"Enter a number upto which you want to print a table:";
    cin>>i;
    for(int j=1;j<=i;j++)
    {
        cout<<n<<"*"<<j<<"="<<n*j<<endl;
    }
    system("pause");
    return 0;
}

```

Output



```
D:\university\PF LABS\lab6\Debug\lab6.exe
Enter a number whose table you want to print:5
Enter a number upto which you want to print a table:20
5*1=5
5*2=10
5*3=15
5*4=20
5*5=25
5*6=30
5*7=35
5*8=40
5*9=45
5*10=50
5*11=55
5*12=60
5*13=65
5*14=70
5*15=75
5*16=80
5*17=85
5*18=90
5*19=95
5*20=100
Press any key to continue . . .
```

Task#3

```
#include "stdafx.h"
#include<iostream>
using namespace
std;
int _tmain(int argc, _TCHAR* argv[])
{
    int n,sum=0;
    for(int n=1;n<=50;n++)
    {
        sum=sum+n;
    }
    cout<<"Sum Of first 50 natural number "<<endl;
    cout<<"Sum="<<sum<<endl;
    system("pause");
    return 0;
}
```

Output



```
D:\university\PF LABS\lab6\Debug\lab6.exe
Sum Of first 50 natural number
Sum=1275
Press any key to continue . . .
```

Task#4

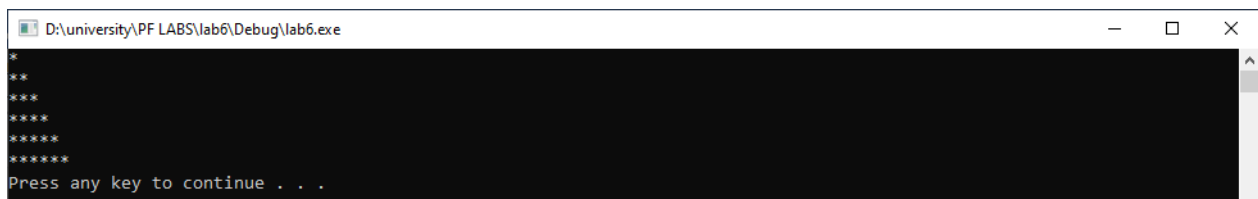
```
#include "stdafx.h"
#include<iostream>
using namespace
std;
```

```

int _tmain(int argc, _TCHAR* argv[])
{
    for(int n=1;n<=6;n++)
    {
        for(int i=1;i<=n;i++)
            cout<<"*";
        cout<<endl;
    }
    system("pause");
    return 0;
}

```

Output



```

D:\university\PF LABS\lab6\Debug\lab6.exe
*
**
***
****
*****
*****
Press any key to continue . . .

```

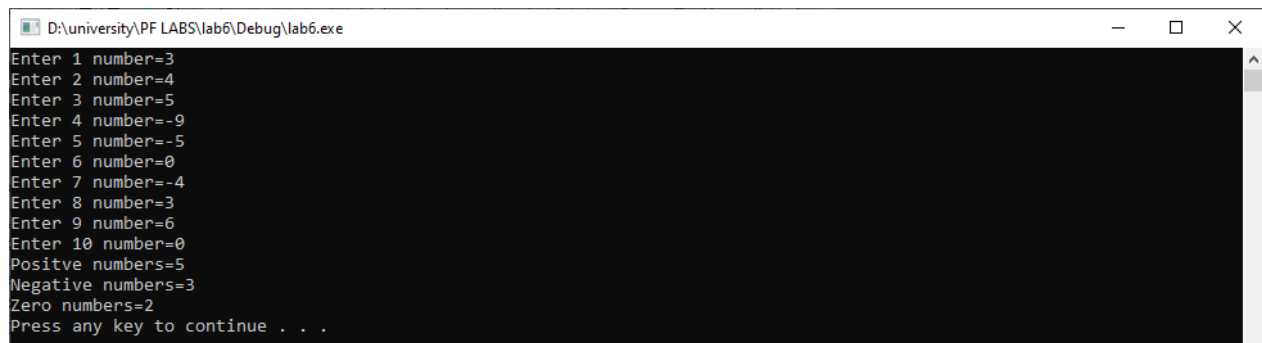
Task#5

```

#include "stdafx.h"
#include<iostream>
using namespace
std;
int _tmain(int argc, _TCHAR* argv[])
{
    int n,nn=0,np=0,nz=0;
    for(int i=1;i<=10;i++)
    {
        cout<<"Enter "<<i<<" number=";
        cin>>n;
        if(n>0)
            np++;
        else if(n<0)
            nn++;
        else
            nz++;
    }
    cout<<"Positive numbers="<<np<<endl;
    cout<<"Negative
numbers="<<nn<<endl; cout<<"Zero
numbers="<<nz<<endl;
    system("pause");
    return 0;
}

```

OUTPUT

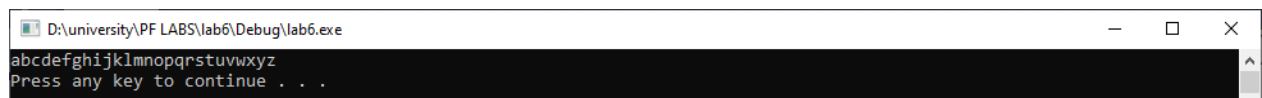


```
D:\university\PF LABS\lab6\Debug\lab6.exe
Enter 1 number=3
Enter 2 number=4
Enter 3 number=5
Enter 4 number=-9
Enter 5 number=-5
Enter 6 number=0
Enter 7 number=-4
Enter 8 number=3
Enter 9 number=6
Enter 10 number=0
Positive numbers=5
Negative numbers=3
Zero numbers=2
Press any key to continue . . .
```

Task#6

```
#include "stdafx.h"
#include<iostream>
using namespace
std;
int _tmain(int argc, _TCHAR* argv[])
{
    for(char x=97;x<=122;x++)
    {
        cout<<x;
    }
    Cout<<endl;
    system("pause");
    return 0;
}
```

Output



```
D:\university\PF LABS\lab6\Debug\lab6.exe
abcdefghijklmnopqrstuvwxyz
Press any key to continue . . .
```

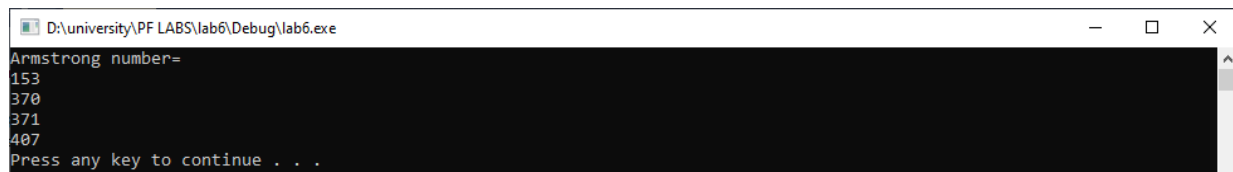
Task#7

```
#include "stdafx.h"
#include<iostream>
using namespace
std;
int _tmain(int argc, _TCHAR* argv[])
{
    int d1,d2,d3,d4,n,m;
    cout<<"Armstrong number="<<endl;
```



```
for(n=100;n<=999;n++)
{
    d1=n/100;
    d2=n%100;
    d3=d2%10;
    d4=d2/10;
    m=((d1*d1*d1)+(d3*d3*d3)+(d4*d4*d4));
    if(m==n)
        cout<<n<<endl;
}
    system("pause");
return 0;
}
```

OUTPUT



The screenshot shows a Windows command prompt window with the title bar "D:\university\PF LABS\lab6\Debug\lab6.exe". The window contains the following text:

```
Armstrong number=
153
370
371
407
Press any key to continue . . .
```