

lab assignment# 4

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course: Fundamentals of Programming (lab)

Hometask # 1:

```
#include <iostream>

using namespace std;

int main(){

    int a=0;

    for( int b=0; b<150; b++)

//the loop will rum 149 times

    {

        if(b%10==0)

//any divisible of 10 will be excluded from cout

        {

            continue;

        }

        else{

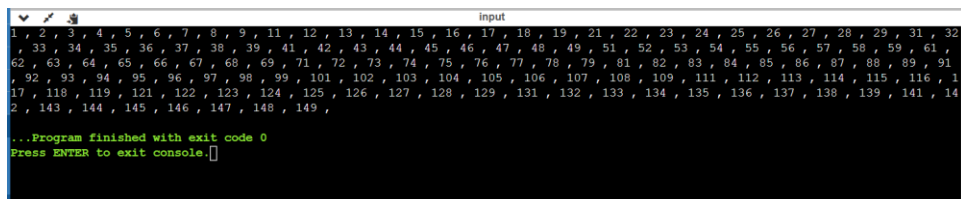
            cout<<b<<" , ";

        }

    }

    return 0;

}
```



```
input
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 , 1
17 , 118 , 119 , 121 , 122 , 123 , 124 , 125 , 126 , 127 , 128 , 129 , 131 , 132 , 133 , 134 , 135 , 136 , 137 , 138 , 139 , 141 , 14
2 , 143 , 144 , 145 , 146 , 147 , 148 , 149 ,

...Program finished with exit code 0
Press ENTER to exit console.
```

Hometask # 2:

```
#include <iostream>

using namespace std;

int main(){

    int a,b,c=0;

    cout<<"Enter number:";

    cin>>a;

    while(a>0)

    {

        b=a%10;

        c=c+b;

        a=a/10;


        //here the number is first divided by 10 to get units value and then again divided by 10 to
        get tens value

    }

    cout<<"sum of digits:"<<c<<endl;

    return 0;

}
```



input

```
Enter number:364
sum of digits:13

...Program finished with exit code 0
Press ENTER to exit console.
```

Hometask # 3:

```
#include <iostream>

using namespace std;

int main(){

    int a,b;

    cout<<"Enter a number:";

    cin>>a;

    if(a==1 | a==0){

        cout<<"your number in niether prime nor composite";

    }

    else{

        for(b=2;b=a/2;b++){

            if(a%b==0){

                cout<<"your number is composite";

            } else{

                cout<<"your number is prime";

            }

            break;

        }

    }

    return 0;

}
```



```
Enter a number:23
your number is prime

...Program finished with exit code 0
Press ENTER to exit console.
```