


FUNDAMENTAL OF PROGRAMMING

HOME TASK 6

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TASK 1

```
#include<iostream>
using namespace std;
int main()
{
    int y,sum(0);
    bool prime=true;
    cout<<"prime numbers between 2 and 50 are:";
    for(int i=2;i<=50;i++)
    {
        for(int j=2;j<i;j++)
        {
            if(i!=j)
            {
                y=i%j;
                if(y!=0)
                {
                    prime=true;
                    continue;
                }
            }
            else
            {
                prime=false;
                break;
            }
        }
        if(prime)
        {
            sum=sum+i;
            cout<<i<<" ";
        }
    }
    cout<<endl;
    cout<<"Sum of numbers from 2 to 50 is :"<<sum;
}
```

 C:\Users\arbab\Documents\TASK\home task 6 1.exe

prime numbers between 2 and 50 are:2 3 5 7 11 13 17 19 23 29 31 37 41 43 47

Sum of numbers from 2 to 50 is :328


Process exited after 0.1178 seconds with return value 0

Press any key to continue . . . ■

TASK 2

```
#include<iostream>
using namespace std;
int main()
{
    int num(1);

    for(int i=0;i<=4;i++)
    {
        num=1;
        for(int j=0;j<=i;j++)
        {
            cout<<num<<" ";
            num++;
        }
        cout<<endl;
    }
    return 0;
}
```

 C:\Users\arbab\Documents\TASK\home task 6 2.exe

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

```
-----
Process exited after 0.07292 seconds with return value 0
Press any key to continue . . .
```

TASK 3

```
#include<iostream>
using namespace std;
int main()
{
    int num(1);
    for(int i=0;i<4;i++){
        if(i>=1 && i<=2)
        { num*=2;
        }
        else if(i==3)
        {num=num+2;
        }
        else
        {
        }
        for(int j=0;j<num;j++)

        {
            cout<<num<<" ";
        }
        cout<<endl;
    }
}
```

C:\Users\arbab\Documents\TASK\home task 6 3.exe

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

```
-----
Process exited after 0.156 seconds with return value 0
Press any key to continue . . .
```

THE END