DAY 2- 29/03/2022

1.SUM OF PRIMES

```
int primeSum(int N){


    int sum=0;
    int remainder=0;
    while(N>0)
    {
       remainder=N%10;
       if(remainder==2 || remainder==3 || remainder==5
|| remainder==7)
       {
          sum+=remainder;
       }
       N/=10;
    }
    return sum;
  }
```

2.INVERTED TRIANGLE WITH STARS

```
int n=4;
   int i=n*2-1;
   for(int row=n;row>=1;row--)
   {
      for(int space=n-1;space>=row;space--)
      {
         std::cout<<" ";
      }
      for(int col=1;col<=i;col++)
      {
         std::cout<<"*";
      }
      i=i-2;
      std::cout<<"\n";
```

3.FOR LOOP-PRIME CHECK

```
string isPrime(int n)
{
   for (int i = 2; i < n; i++)
    {
       if(n%i==0)
       {
          return "No";
       }
    }
    return n==1?"No":"Yes";
}
```

4.FULL PRIME

```
class Solution{
   public:

          bool prime(int num)
      {
      if(num<=1)
      {
```

```
        return false;
      }
      for(int i=2;i<num;i++)
      {
        if(num%i==0)
        {
          return false;
        }
      }
      return true;
    }
     int fullPrime(int N)
     {
       int num = N;
       int remainder=0;
       while(N>0)
       {
         int remainder = N%10;
         if(remainder!=2 && remainder!=3 &&
remainder!=5 && remainder!=7)
         {
```

```
            return 0;
        }
        N=N/10;
    }
    return 1;
  }
};
```

5.THREE DISTINCT FACTORS

```
int hasThreePrimeFac(long long N)
  {
    int long long count=2;
    for(int long long i=2;i<=sqrt(N);i++ )
    {
      if(N%i==0)
      {
        count++;
      }
      if(count>3)
      {
        return 0;
```

```
        }
    }
    if(count>3 || count<3)
    {
        return 0;
    }
    return 1;
}
```