1. Composition API initial boiler plate,

composition API er **setup** function er kaj ta jevabe execute hoy,

```
export default {
  name: 'HomeView',
  setup() {

    // properties

  let name = "mario";
  let age = 30;

    // functions

    const handleClick = () => {
       console.log('You clicked me')
    }

    // return to use in templates

  return {
      name, age, handleClick
    }
},
```

Now from templates,

2. Composition API [Template Refs],

Step 1: import kore nite hobe ref ke,

```
import {ref} from "vue";
```

Step 2: kono ekta variable er moddhe assign kore nite hobe,

```
const p = ref(null);
```

Step 3: return the value,

```
return {
   p
}
```

Step 4; ekhn template er moddhe ref ke assign kora jabe,

```
{{ name }}
```

Step 5: ekhn ref er ei value proyojon moto use kora jabe,

```
const handleClick = () => {
   console.log(p.value.textContent)
}
```

3. Composition API [Making value reactive],

Step 1: changing values in ref mode,

```
let name = ref('HomeView')
let age = ref(10)
```

Step 2: for an example, changing values through functions,

```
let name = ref('HomeView')
let age = ref(10)
```

For an example, ref add korar por reactive state e input type e v-model add kore data changing test kora,

```
<input type="text" v-model="name" placeholder="Name" />
```

Full code snippet,

4. Computed Property,

Basic snippet of computed property usage,

• Computed property always recomputes, when changes appear it modifies

An example of dynamic search using computed properties,

Watch property,

Watch property hocche kono changes pele identify kore output back kore

```
watch(search, (value) => {
  console.log(value)
})
```

watch() property er snippet,

```
import {ref, computed, watch} from "vue";
export default {
  name: 'HomeView',
  setup() {

    let search = ref('');

    watch(search, (value) => {
       console.log(value)
    })

    return {
       search
    }
},
</script>
```

watchEffect() eta onkta mounted() property er motoi kaj kore, kono parameter expect kore na. component e kono changes pelei run kore, jekhane mounted only ekbar e execute hoto

```
watchEffect(()=>{
  console.log("watch effect")
});
```

Stopping the effects,

Step 1:

```
const stopEffect = watchEffect(() => {
  console.log("watch effect")
});
```

Step 2: kono ekta function or click event er moddhe evabe trigger korlei effect off ohye jabe,

stopEffect();