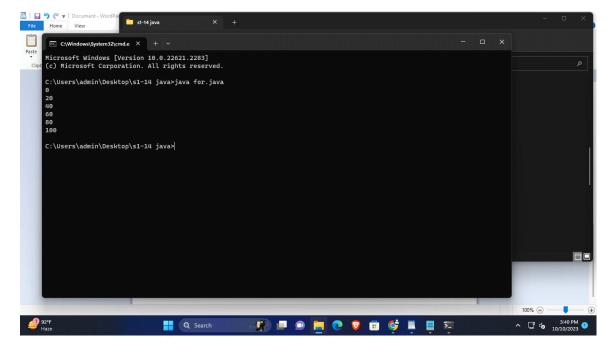
### **BRANCHING AND LOOPING**

# 1) while loop

```
class Whileloop
{
    public static void main(String arg[])
    {
    int a=0;
    while(a<=100)
    {
        if(a%20==0)
        {
            System.out.println(a);
            } a++;
        }
     }
}</pre>
```

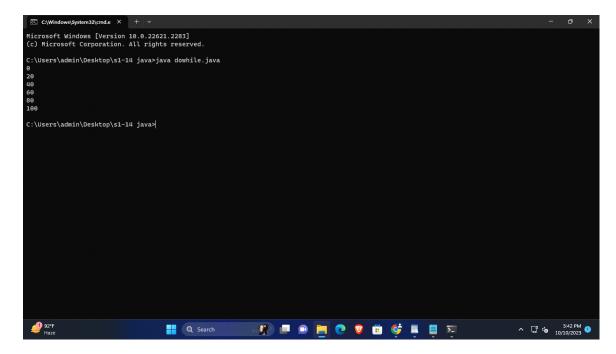
## 2) for loop



## 3) dowhile loop

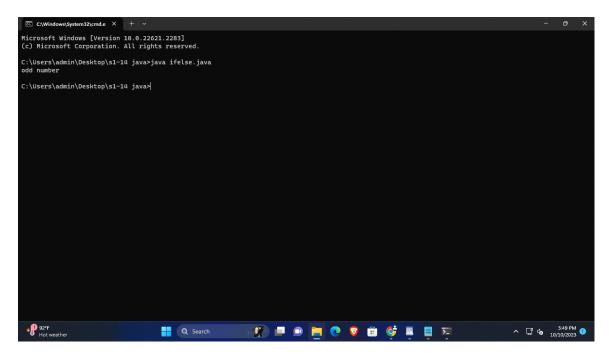
}

```
class Dowhileloop
{
    public static void main(String arg[])
    {
    int a=0;
    do
    {
       if(a%20==0)
       {
            System.out.println(a);
            } a++;
    } while(a<=100);
    }
}</pre>
```



## 4}if else

```
public class IfElseExample {
public static void main(String[] args) {
    int number=13;
        if(number%2==0){
        System.out.println("even number");
    }else{
        System.out.println("odd number");
    }
}
```

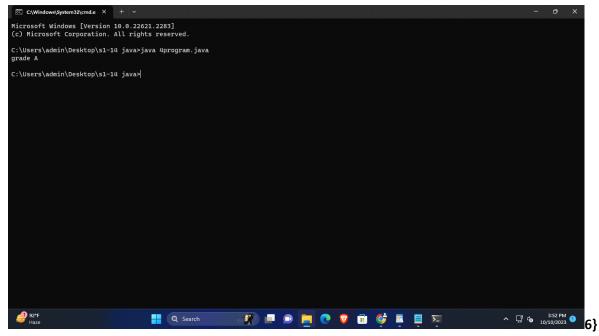


## 5} Ladder if else

```
class SecJavaProgram
{
    public static void main(String args[])
{
    int a=90;

if(a>=90)
{
    System.out.println("grade A");
}
    else if(a>=80)
{
    System.out.println("grade B");
}
else if(a>=70)
```

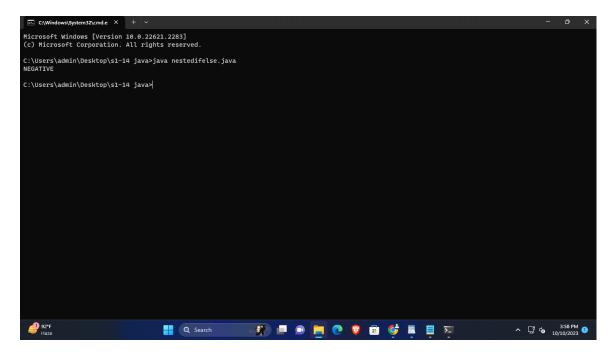
```
{
System.out.println("grade c");
}
else if(a<70)
{
System.out.println("grade F");
}
}</pre>
```



### nested if else

```
public class PositiveNegativeExample {
public static void main(String[] args) {
    int number=-13;
    if(number>0){
        System.out.println("POSITIVE");
```

```
}else if(number<0){
    System.out.println("NEGATIVE");
    }else{
    System.out.println("ZERO");
}</pre>
```



# 7) switch

```
class SecJavaProgram
{
  public static void main(String args[])
{
  int a=6;

switch(a)
{
```

case 1:	
System.out.println("monday");	
break;	
case 2:	
System.out.println("tuesday");	
break;	
case 3:	
System.out.println("wednesday");	
break;	
case 4:	
System.out.println("thursday");	
break;	
case 5:	
System.out.println("friday");	
break;	
case 6:	

System.out.println("saturday");
break;
case 7:
System.out.println("sunday");
break;
default:
System.out.println("invalid");
break;
}
}
}

