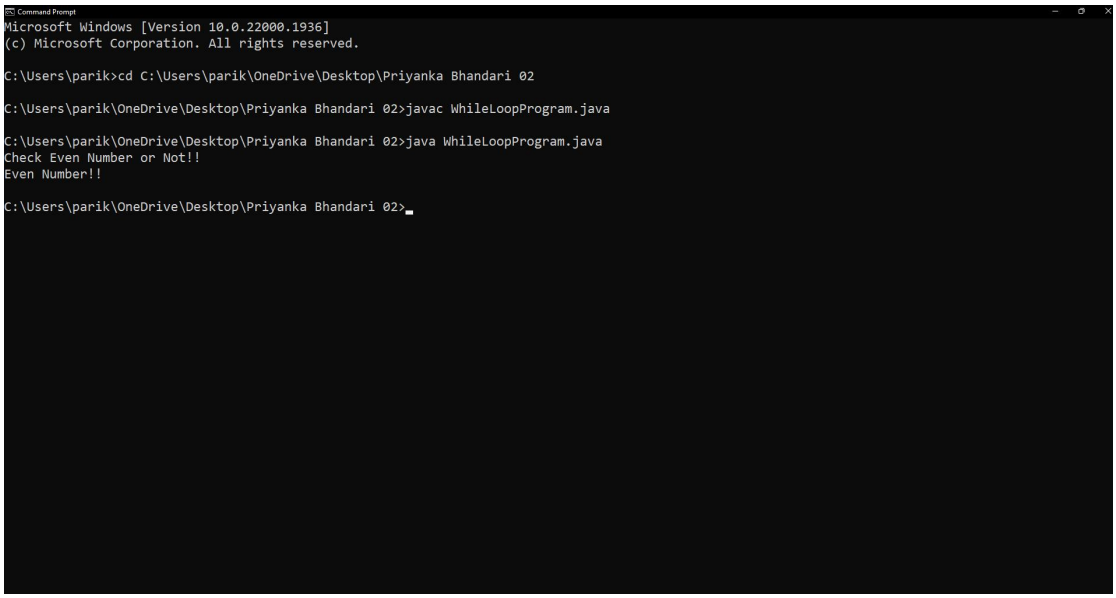
Branching and Looping

1)While loop

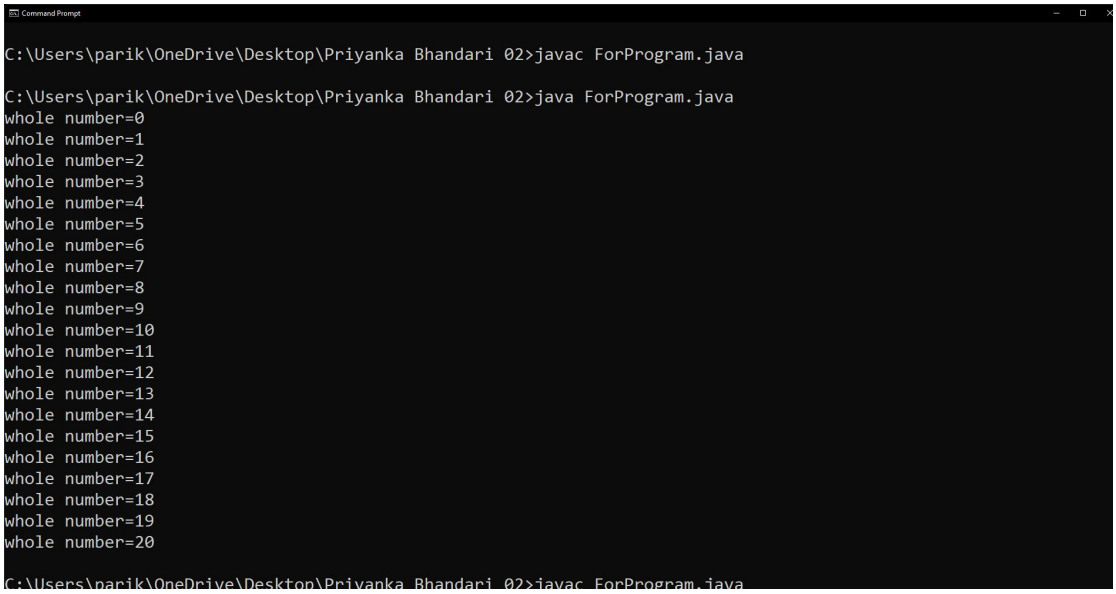
```
class WhileLoopProgram
{
	public static void main(String args[])
	{
		int n=8;
		System.out.println("Check Even Number or Not!!");
		while(n%2==0)
		{
			System.out.println("Even Number!!");
			break;
		}
	}
}
```



2) For loop

```
class ForProgram
```

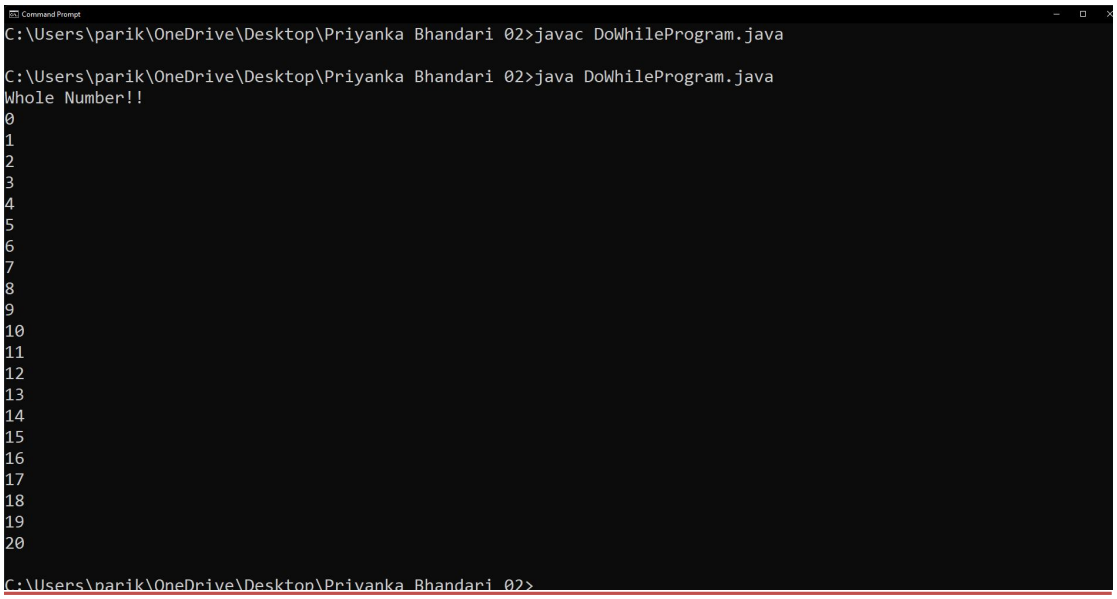
```
{
	public static void main(String args[])
	{
		int a=20,i;
		for(i=0;i<=a;i++)
		{
			System.out.println("whole number=",i);
		}

	}
}
```



3) Do-While loop

```
class DoWhileProgram
{
	public static void main(String args[])
	{
		int a=20,i=0;
		System.out.println("Whole Number!!");
		do
		{
```

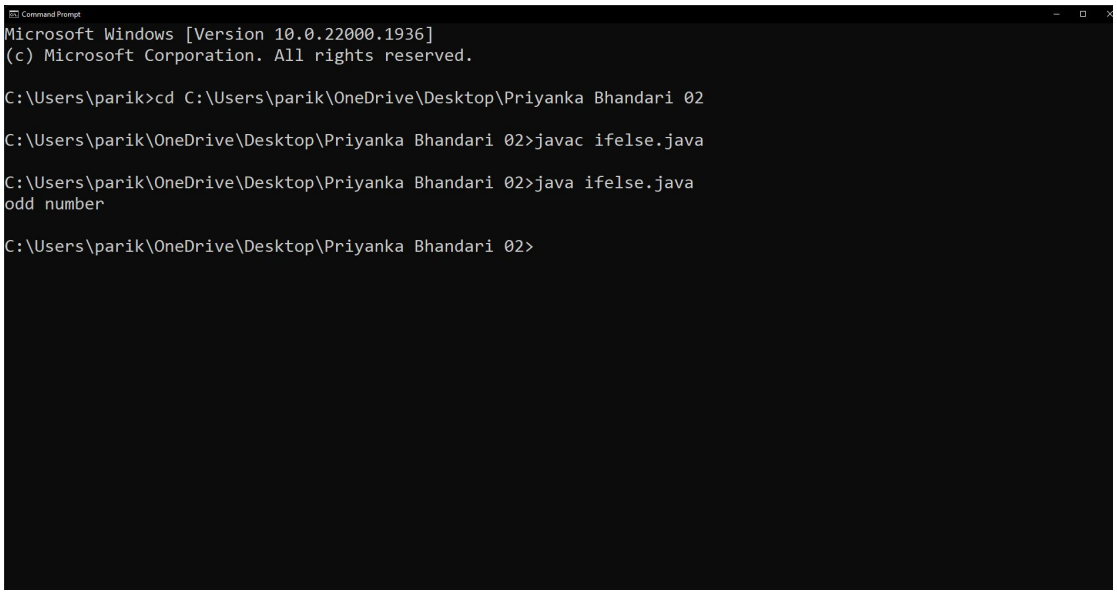
```
                System.out.println(i);
                i++;
            }
            while(i<=a);

        }
}
```



4)If Else

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

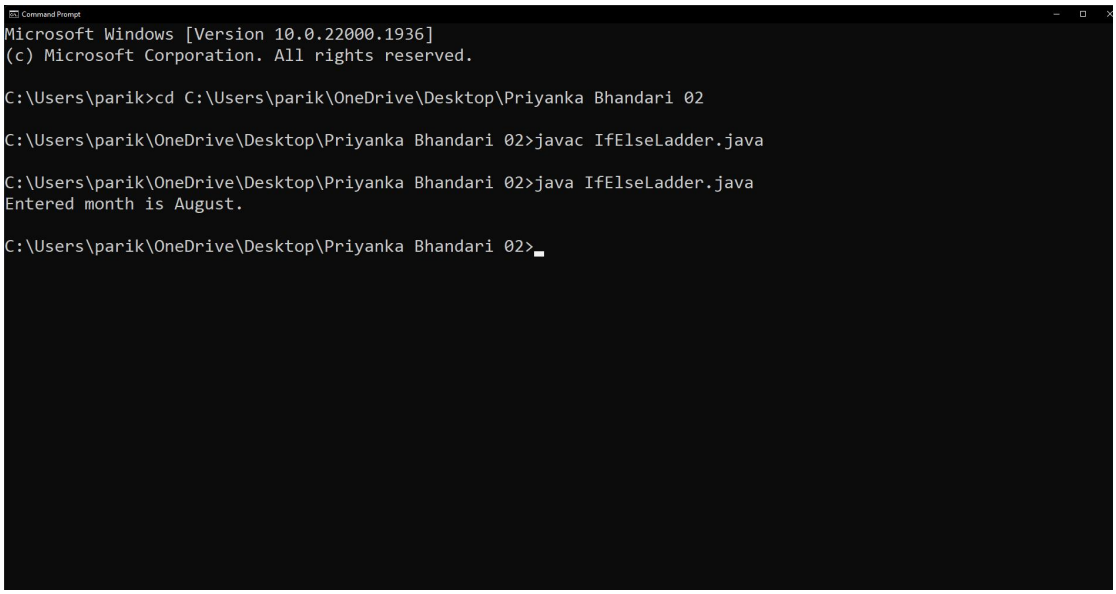
}



5) If Else Ladder

```
class IfElseLadder
{
public static void main(String args[])
        {
        int month=8;
        if(month==6)
                {
                System.out.println("Entered month is June.");
                }
        else if(month==7)
                {
                System.out.println("Entered month is July.");
                }
        else if(month==8)
                {
                System.out.println("Entered month is August.");
                }
        else if(month==9)
```

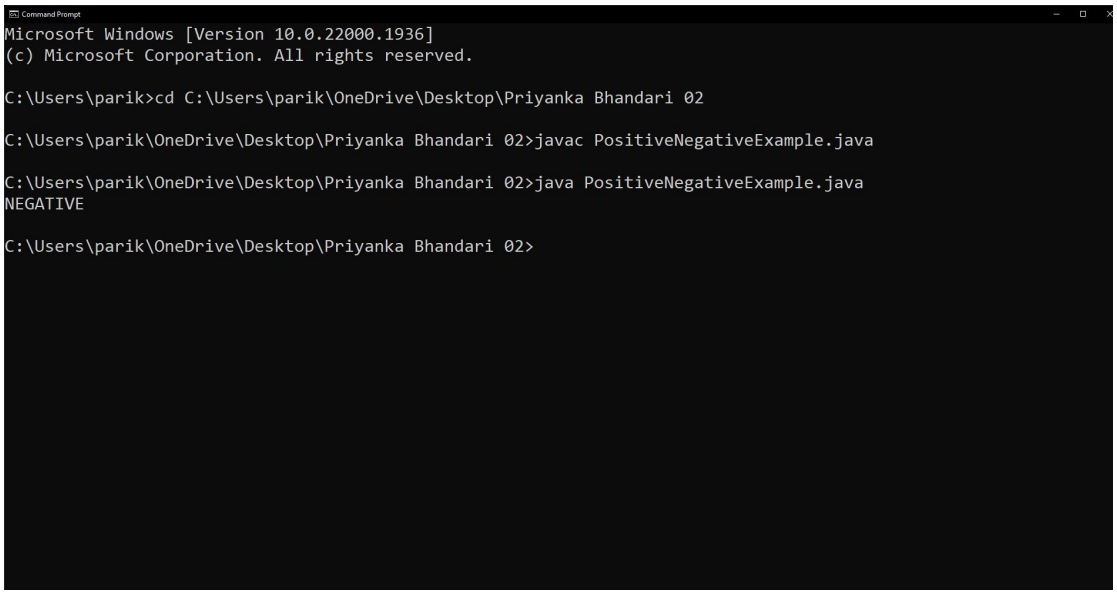
```
                {
                System.out.println("Entered month is September.");
                }
        }
}
```



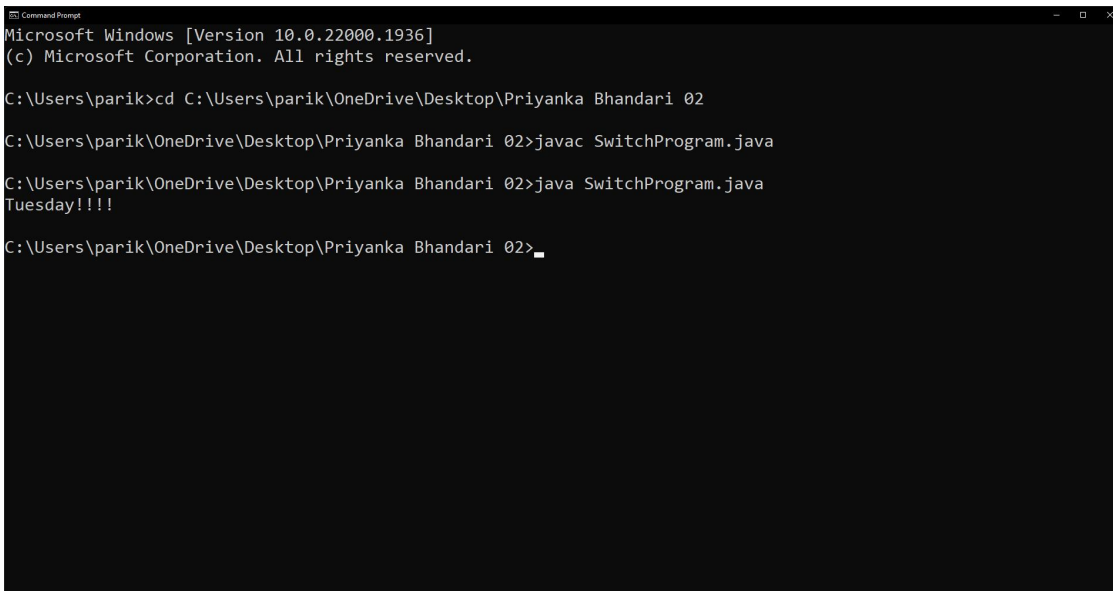
6)Nested If else

```
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");
 }
}
}
```



7)Switch case

```
class SwitchProgram
{
public static void main(String args[])
{
        int a=2;
        switch(a)
{
        case 1:
        {
                System.out.println("Monday!!!!");
        }
        case 2:
        {
                System.out.println("Tuesday!!!!");
```

```
            break;
        }
        case 3:
        {
            System.out.println("Wednesday!!!!");
            break;
        }
        case 4:
        {
            System.out.println("Thursday!!!!");
            break;
        }
        default:
        {
            System.out.println("Invalid Day. Enter a Valid Day!!!!");
            break;
        }
}
}
}
```