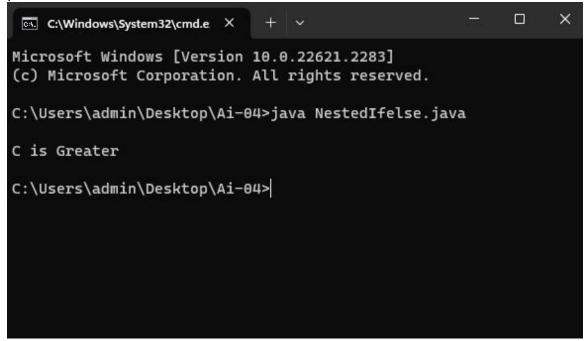
Branching and Looping

```
1. IfElse
class IfElse
{
    public static void main(String args[])
    {
        int a=5;
        if(a>10)
        {
            System.out.println("\nNumber is smaller than 10");
        }
        else
        {
            System.out.println("\nNumber is smaller than 10");
        }
}
```

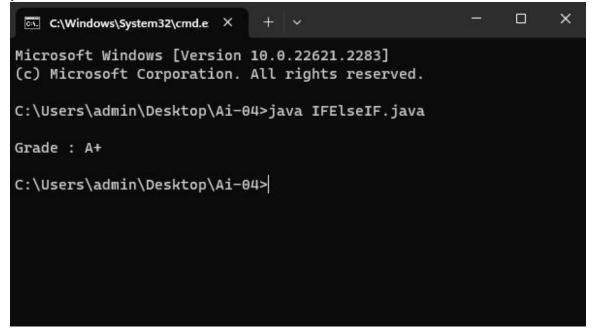
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```

2. NestedIfElse

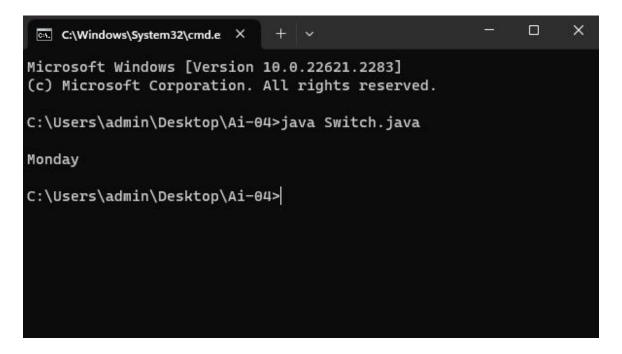
```
class NestedIfElse
{
   public static void main(String args[])
          int a=15;
          int b=10;
          int c= 26;
          if(a>b)
           {
            if(a>c)
                System.out.println("\nA is Greater");
            else
                System.out.println("\nC is Greater");
            }
          else
           {
            if(b>c)
                 System.out.println("\nB is Greater");
            else
                System.out.println("\nC is Greater");
           }
```



```
3. IfElseIf
class IfElseIf
   public static void main(String args[])
int a=99;
if(a>=90)
System.out.println("\nGrade : A+");
else if(a>=80)
System.out.println("\nGrade : A");
else if(a > = 60)
System.out.println("\nGrade : B");
else if(a>=40)
System.out.println("\nGrade : C");
else
System.out.println("\nFail");
}
```



```
4. Switch
class Switch
{
   public static void main(String args[])
int a=1;
switch(a)
case 1:
System.out.println("\nMonday");
break;
case 2:
System.out.println("\nTuesday");
break;
case 3:
System.out.println("\nWednesday");
break;
case 4:
System.out.println("\nThursday");
break;
case 5:
System.out.println("\nFriday");
break;
case 6:
System.out.println("\nSaturday");
break;
case 7:
System.out.println("\nSunday");
break;
default:
System.out.println("\nInvalid");
}
}
}
```



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C:\Users\admin\Desktop\Ai-04>
```

```
6. While
class While
{
    public static void main(String args[])
        {
    int a=0;
    while(a<=25)
        {
        if(a%2!=0)
            {
             System.out.println(a);
            }
            a++;
    }
}</pre>
```

```
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Microsoft Windows [Version 10.0.22621.2283]
(c) Microsoft Corporation. All rights reserved.
C:\Users\admin\Desktop\Ai-04>java While.java
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C:\Users\admin\Desktop\Ai-04>
```

7. DoWhile

```
public class doWhile {
public static void main(String[] args) {
    int i=1;
    do{
        System.out.println(i);
    i++;
    }while(i<=10);
}</pre>
```

```
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Microsoft Windows [Version 10.0.22621.2283]
(c) Microsoft Corporation. All rights reserved.

C:\Users\admin\Desktop\Ai-04>javac doWhile.java

C:\Users\admin\Desktop\Ai-04>java doWhile.java

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C:\Users\admin\Desktop\Ai-04>
```