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In [ ]: # decision making statements
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In [ ]: # what are all comparison operator.  
#if statement  
#if else statement  
#if elif else statement  
#nested if statement
```

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In [ ]: # Example if  
x=4  
if (x>3):  
    print("lets go for movie")
```

```
In [ ]: x=2  
if (x>3):  
    print("lets go for movie")  
print("program terminated")
```

```
In [ ]: x=2  
if (x>3):  
    print("lets go for movie")  
if(x<3):  
    print("lets go for bike ride")  
  
print("program terminated")  
print("if block executed")
```

```
In [ ]: # example if else  
  
x=4  
  
if (x>3):  
    print("lets go for movie")  
  
else:  
    print("lets go for bike ride")  
  
print("program terminated")  
print("if block executed")
```

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In [ ]: # what is nested if ?
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In [ ]:
```

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In [ ]: # example
name= "sakthi"
regno=1
marks=90
if(name=="sakthi"):
    if(regno==1):
        print("your mark is",marks)
```

```
In [ ]: # example 2
name= "sakthi"
regno=1
marks=90
if(name=="sakthi"):
    if(regno==10):
        print("your mark is",marks)
print("program terminated")
```

```
In [ ]: # example 3
name= "sakthi"
regno=1
marks=90
if(name=="sakthi"):
    if(regno==1):
        print("your mark is",marks)
    else:
        print("please enter valid register number!!!")
print("program terminated")
```

```
In [ ]: # example 4
name= "vel"
regno=1
marks=90
if(name=="sakthi"):
    if(regno==1):
        print("your mark is",marks)
    else:
        print("please enter valid register number!!!")
else:
    print("please enter a valid name!!!")
print("program terminated")
```

```
In [ ]: # example 4
name= "sakthi"
regno=1
marks=90
if(name=="sakthi"):
    if(regno==1):
        print("your mark is",marks)
    else:
        print("please enter valid register number!!!")
else:
    print("please enter a valid name!!!")

print("program terminated")
```

```
In [ ]: # what is if elif else
```

```
In [ ]: #refer PPT for flow chart
```

```
In [ ]: # example
x=1
if(x==1):
    print("one")
if(x==2):
    print("two")
if(x==3):
    print("three")
if(x==4):
    print("four")
if(x==5):
    print("five")
```

```
In [1]: # example 2
x=4
if(x==1):
    print("one")
elif(x==2):
    print("two")
elif(x==3):
    print("three")
elif(x==4):
    print("four")
elif(x==5):
    print("five")
```

four

```
In [ ]: # example 3
x=6
if(x==1):
    print("one")
elif(x==2):
    print("two")
elif(x==3):
    print("three")
elif(x==4):
    print("four")
elif(x==5):
    print("five")
else:
    print("number not found")

print("program terminated")
```

```
In [ ]: #what is loop?--- To repeat process
```

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In [ ]: #what is while loop
```

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In [ ]: #Refer PPT for flowchart
```

```
#Loop---- for
#         while--infinite while loop-- ---nested while loop---while loop with
else
```

```
In [ ]: # print hai for 5 times
print("Hai")
print("Hai")
print("Hai")
print("Hai")
print("Hai")
```

```
In [ ]: # using while
i=1
while(i<=5):
    print("Hai")
    i=i+1
```

```
In [ ]: # example to print numbers without using loop
print("number 1")
print("number 2")
print("number 3")
print("number 4")
print("number 5")
print("number 6")
print("number 7")
print("number 8")
print("number 9")
print("number 10")
```

```
In [ ]: # example printing numbers using loop
i=1
while(i<=10):
    print("Number",i)
    i=i+1
print("terminated from while loop")
```

```
In [ ]: # even numbers
i=2
while(i<=20):
    print(i)
    i=i+2
print("program terminated")
```

```
In [ ]: i=20
while(i>=2):
    print(i)
    i=i-2
print("program terminated")
```

```
In [ ]: # infinite loop
i=1
while(i<=10):
    print("Number",i)

print("terminated from while loop")
```

```
In [ ]: # Nested while loop
```

```
In [ ]: i=1
j=5
while(i<4):
    while(j<8):
        print(i,j)
        i=i+1
        j=j+1
```

```
In [ ]: # while loop with else part
```

```
In [ ]: # example
a=10
while(a<=5):
    print(a)
    a=a+1
else:
    print("i am from else block")
```

```
In [ ]: #break statement
```

```
In [ ]: while True:
        line=input('>')
        if line=='done':
            #break
            print(line)
        print("finished")
```

```
In [ ]: while True:
        line=input('>')
        if line=='done':
            break
        print(line)
    print("finished")
```

```
In [ ]: #continue statement
```

```
In [ ]: while True:
        line=input('>')
        if line[0]=='#':
            continue
        if line == 'done':
            break
        print(line)
    print("finished")
```

```
In [ ]: #pass statement
```

```
In [ ]: # example 2
        if 1>2:
            pass
        else:
            print("i am from else block")
```

```
In [ ]: # example 3
        i=1
        while i<=10:
            if(i==5):
                pass
            print("pass statement found")
            print(i)
            i=i+1
        print("program terminated")
```