Decision Making Statement

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Means if we have some condition and if we want to check then we can decision making statement.
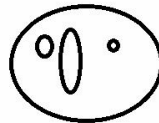
Types of Decision Making Statement

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1. Simple if statement
2. If else statement
3. Else if ladder
4. Nested if statement
5. Switch statement

Now we want to discuss about simple if statement

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Syntax of simple statement

```
if(   condition   )
{
    write here your logics
}

write here other statements
```

Example with source code

```java
import java.util.*;
public class SimpleIfApp
{ public static void main(String x[])
    {   Scanner xyz =new Scanner(System.in);//
        int a,b;
        System.out.println("Enter two values");
        a=xyz.nextInt();
        b=xyz.nextInt();
        if(a>b)
        { System.out.println("A is Greater");
```

```
        }
        if(b>a)
        { System.out.println("B is Greater");
        }
        if(a==b)
        { System.out.println("A is Equal with B");
        }

    }
}
```

If else statement

When we have two conditions exact opposite of each other then we can use if else statement.

Syntax:

```
if(condition)
{  write here your logics
}
else{
    write here your logics
}
other statement
```

Note: if your condition in if block is true then execute if statement otherwise execute else block.

Example with source code

```
import java.util.*;
public class SimpleIfApp
{
    public static void main(String x[])
    {
        Scanner xyz =new Scanner(System.in);//
        int a,b;
        System.out.println("Enter two values");
        a=xyz.nextInt();
```

```
        b=xyz.nextInt();
        if(a>b)
        { System.out.println("A is Greater");
        }
        else{
           System.out.println("B is Greater");
        }


    }
}
```

Example: WAP to input the quantity and rate of product and calculate its total bill and if bill is greater than 10000 then apply 10% discount on bill if bill is less than 10000 then apply 2 % discount on bill.

Example: WAP to input character from keyboard and convert lower case character to upper case and upper case character to lower case.

Note: if we want to work with any character data then we should have to know the ASCII code

Q. What is ASCII Code?
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American Standard code for information and interchange called as ASCII.

Def: ASCII is intermediate language which is used for store every key on character as digit in system.

There are total 256 ASCII code is there.

Digit: 0- 48 to 9-57
Capital Letters: A = 65 to Z= 90
Small letters: A = 97 to Z=122

Example

```java
import java.util.*;
public class CharConvertApp
{
    public static void main(String x[])
    {   Scanner xyz  = new Scanner(System.in);
        char ch;
    System.out.println("Enter character");
     ch=xyz.nextLine().charAt(0); //use for single character input
System.out.printf("Before Convering character is %c\n",ch);
  if(ch>=97 && ch<=122)  //ch>='a' && ch<='z'
  {
    ch= (char)((int)(ch-32));
  }
  else{
    ch= (char)((int)(ch+32));
  }
  System.out.printf("After converting character is %c\n",ch);

    }
}
```