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CORE JAVA

Material

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ENUMARATION

1. This concept is introduced in 1.5 version
2. enumeration is used to declare group of named constant s.
3. we are declaring the enum by using enum keyword. For the enums the compiler will generate .classess

4.enum is a keyword and **Enum** is a class and every enum is directl child class of **java.lang.Enum**so it is not possible to inherit the some other class. Hence for the enum inheritance concept is not applicable

5. by default enum constants are **public static final**

```
enum Heroin                    enum Week
{                              {
Samantha,tara,ubanu;   public static final smantha;
}                              public static final  tara;
                               Public static final  ubanu;
                               }
```

EX:-calling of enum constants individually

```
enum Heroin
{
        samantha,tara,anu;
}
class Test
{
        public static void main(String... ratan)
        {
        Heroin s=Heroin.samantha;
        System.out.println(s);
        Heroin t=Heroin.tara;
        System.out.println(t);
        Heroin a=Heroin.anu;
        System.out.println(a);
        }
};
```

EX:-

1. printing the enumeration constants by using for-each loop.

2. values() methods are used to print all the enum constants.

3. **ordinal() is used to print the index values of the enum constants.**

```
enum Heroin
{
        samantha,tara,anu;
}
class Test
{
        public static void main(String... ratan)
        {
                Heroin[] s=Heroin.values();
                for (Heroin s1:s)
                {
System.out.println(s1+"----"+s1.ordinal());
                }
        }
};
```

1. inside the enum it is possible to declare constructors. That constructors will be ececuted for each and every constant. If we are declaring 5 constants then 5 times constructor will be executed.

2. Inside the enum if we are declaring only constants the semicolon is optional.

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3. Inside the enum if we are declaring group of constants and constructors at that situation the group of constants must be first line of the enum must ends with semicolon.

Ex :-Semicolanoptinal

```
enum Heroin
{       samantha,tara,anu,ubanu
}
class Test
{       public static void main(String... ratan)
        {       Heroin s=Heroin.samantha;
        }
};
```

Ex:- semicolon mandatory

```
enum Heroin
{       samantha,tara,anu,ubanu;
        Heroin()
        {       System.out.println("ratan sir");
        }
}
class Test
{       public static void main(String... ratan)
        {       Heroin s=Heroin.samantha;
        }
};
```

Ex:- constructors with arguments

```
enum Heroin
{       ANUSHKA,UBANU(10),DEEPIKA(10,20);
        Heroin()        {       System.out.println("ratan");    }
        Heroin(int a)   {       System.out.println("raghava");  }
        Heroin(inta,int b)      {       System.out.println("sanki");    }
}
class Test
{       public static void main(String[] arhss)
        {       Heroin[] h =    Heroin.values();
                for (Heroin h1 : h)
                {       System.out.println(h1+"----"+h1.ordinal());
                }
        }
};
```

Ex:-inside the enum it is possible to provide main method.

```
enum Heroin
{       samantha,tara,anu;
        public static void main(String[] args)
        {       System.out.println("enum main method");
        }
}
class Test
{       public static void main(String... ratan)
        {Heroin[] s=Heroin.values();
                for (Heroin s1:s)
                {       System.out.println(s1+"--------"+s1.ordinal());
                }
        }
};
```

Ex:- inside the enums it is possible to declare group of constants and constructors and main method

```
enum Heroin
{
        //group of constants
        ANUSHKA,UBANU,DEEPIKA;
        //contructor
        Heroin()
        {       System.out.println("ratan");
        }
        //enum  main method
        public static void main(String[] args)
        {
                System.out.println("enum m ain method");
        }//end main
}//end enum
class Test
{       public static void main(String[] arhss)
        {       //accessing enum constants
                Heroin[] h =    Heroin.values();
                for (Heroin h1 : h)
                {
                        System.out.println(h1+"----"+h1.ordinal());
                }
        }//end main
};//end class
```

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