

```
public class Loop
     public static void main(String[] args)
// Can a for loop execute without initialization?-->Yes It can.
System.out.println("for loop execute without initialization\n");
          int i=1;//initialization it before the for statement
          for(;i<=10;i++)</pre>
               System.out.println("i is:"+i);
          System.out.println("\n----\n");
          //Can a for loop be executed without increment/decrement
operator?
          System.out.println("for loop be executed without
increment/decrement operator\n");
          int j;
          for(j=10;j>=1;)//Yes It Can.
               System.out.println("j is:"+j);
               j--;//9
          }
// Can a for loop be Executed without both initialization and
increment/decrement operator?
System.out.println("\n----\n");
```



```
System.out.println("Can a for loop be Executed without both
initialization and increment/decrement operator\n");
     int k=10;// initialization
for( ;k>=1; )//condition
     System.out.println("k is:"+k);
     k--;//increment
}
System.out.println("\n----\n");
// Check if the number is Even or Odd?
System.out.println("\nEven OR Odd\n");
int num=23;
if(num%2==0)//23%2 remainder is 1-->False
{
     System.out.println(num+" is an Even Number");
}
else
{
     System.out.println(num+" is an Odd Number");
}
System.out.println("\n----\n");
int num2=20;
if(num2%2==0)// 20%2 remainder is 0-->True
{
     System.out.println(num2+" is an Even Number");
}
else
{
     System.out.println(num2+" is an Odd Number");
}
```

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```
System.out.println("\n----\n");
// Display The Even Numbers between 1 to 20
System.out.println(" Display The Even Numbers between 1 to 20\n");
int p;
for(p=1;p<=20;p++)</pre>
     if(p%2==0)//\underline{rem}=0\rightarrowTrue rem not 0\rightarrowFalse
          System.out.println("Even: "+p);
     }
}
System.out.println("\n----\n");
System.out.println(" Display The Odd Numbers between 1 to 20\n");
int q;
for(q=1;q<=20;q++)</pre>
     if(q\%2!=0)
          System.out.println(q+" is Odd");
     }
}
System.out.println("\n----\n");
```



```
System.out.println("Display a to z alphabets\n");
char ch;
for(ch='a';ch<='z';ch++)</pre>
     System.out.print(" "+ch);
System.out.println("\n----\n");
System.out.println("Diplay All Vowels from a to z\n");
char ch2;
for(ch2='a';ch2<='z';ch2++)</pre>
     if(ch2=='a'||ch2=='e'||ch2=='i'||ch2=='o'||ch2=='u')
          System.out.println(ch2+" is a vowel");
     }
}
OutPut:
for loop execute without initialization
i is:1
i is:2
i is:3
i is:4
i is:5
i is:6
i is:7
i is:8
i is:9
i is:10
```

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for	loon	he	executed	without	increment	/decrement	operator
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j is:10

j is:9

j is:8

j is:7

j is:6

j is:5

j is:4

j is:3

j is:2

j is:1

Can a for loop be Executed without both initialization and increment/decrement operator

k is:10

k is:9

k is:8

k is:7

k is:6

k is:5

k is:4

k is:3

k is:2

k is:1

Even OR Odd

23 is an Odd Number



20 is an Even Number Display The Even Numbers between 1 to 20 Even: 4 Even: 6 Even: 8 Even: 10 Even: 12 Even: 14 Even: 16 Even: 18 Even: 20 Display The Odd Numbers between 1 to 20 1 is Odd 3 is Odd 5 is Odd 7 is Odd 9 is Odd 11 is Odd 13 is Odd 15 is Odd 17 is Odd 19 is Odd

Display a to z alphabets



abcdefghijklmnopqrstuvwxyz

Display All Vowels from a to z

a is a vowel

e is a vowel

i is a vowel

o is a vowel

u is a vowel

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