

Implement a program using basic programming constructs like Branching and Looping

1} while loop

```
class Whileloop
```

```
{
```

```
    public static void main(String arg[])
```

```
    {
```

```
int a=0;
```

```
    while(a<=100)
```

```
    {
```

```
        if(a%20==0)
```

```
        {
```

```
            System.out.println(a);
```

```
        } a++;
```

```
    }
```

```
}
```

```
}
```

```
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C:\Users\Vedika\Desktop\S3-46>javac Whileloop.java

C:\Users\Vedika\Desktop\S3-46>java Whileloop.java
0
20
40
60
80
100
```

Output :

0

20

40

60

80

100

2} for loop

class Forloop

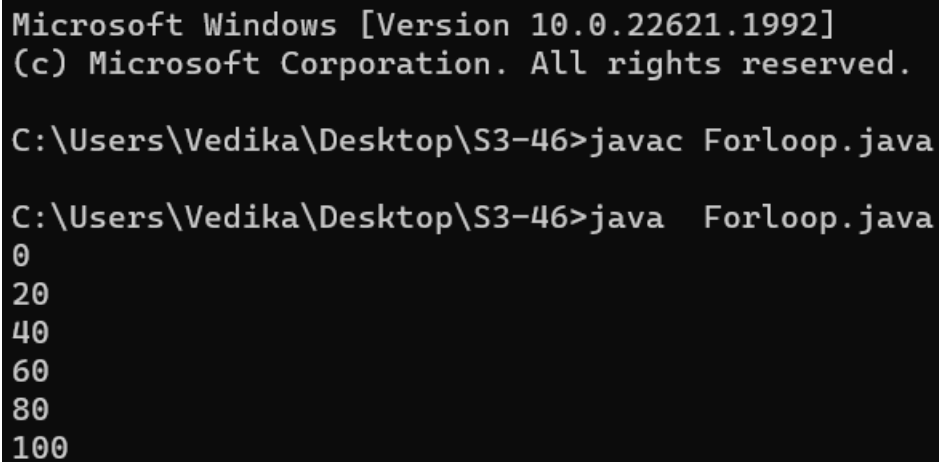
{

public static void main(String arg[])

{

int a;

```
for(a=0;a<=100;a++)  
{  
    if(a%20==0)  
    {  
        System.out.println(a);  
    }  
}  
}
```



```
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C:\Users\Vedika\Desktop\S3-46>javac Forloop.java  
  
C:\Users\Vedika\Desktop\S3-46>java Forloop.java  
0  
20  
40  
60  
80  
100
```

Output :

0
20
40
60

80

100

3} dowhile loop

class Dowhileloop

{

public static void main(String arg[])

{

int a=0;

do

{

if(a%20==0)

{

System.out.println(a);

} a++;

} while(a<=100);

}

}

```
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C:\Users\Vedika\Desktop\S3-46>javac Dowhileloop.java

C:\Users\Vedika\Desktop\S3-46>java Dowhileloop.java
0
20
40
60
80
100
```

Output :

0
20
40
60
80
100

4}if else

```
public class IfElseExample {
    public static void main(String[] args) {
        int number=13;
        if(number%2==0){
            System.out.println("even number");
        }
    }
}
```

```

    }else{
        System.out.println("odd number");
    }
}
}

```

```

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C:\Users\Vedika\Desktop\S3-46>javac IfElseExample.java

C:\Users\Vedika\Desktop\S3-46>java IfElseExample.java
odd number

```

Output:

odd number

5} Ladder if else

```
class SecJavaProgram
```

```
{
```

```
    public static void main(String args[])
```

```
{
```

```
    int a=90;
```

```
    if(a>=90)
```

```
{
```

```
System.out.println("grade A");  
}  
else if(a>=80)  
{  
System.out.println("grade B");  
}  
else if(a>=70)  
{  
System.out.println("grade c");  
}  
else if(a<70)  
{  
System.out.println("grade F");  
}  
}  
}
```

```
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C:\Users\Vedika\Desktop\S3-46>javac SecJavaProgram.java  
  
C:\Users\Vedika\Desktop\S3-46>java SecJavaProgram.java  
grade A
```

Output :

grade A

6} nested if else

```
public class PositiveNegativeExample {  
    public static void main(String[] args) {  
        int number=-13;  
        if(number>0){  
            System.out.println("POSITIVE");  
        }else if(number<0){  
            System.out.println("NEGATIVE");  
        }else{  
            System.out.println("ZERO");  
        }  
    }  
}
```

```
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C:\Users\Vedika\Desktop\S3-46>javac PositiveNegativeExample.java  
  
C:\Users\Vedika\Desktop\S3-46>java PositiveNegativeExample.java  
NEGATIVE
```


Output :

NEGATIVE

7} switch

```
class SecJavaProgram
```

```
{
```

```
    public static void main(String args[])
```

```
{
```

```
    int a=6;
```

```
    switch(a)
```

```
{
```

```
case 1:
```

```
System.out.println("monday");
```

```
break;
```

```
case 2:
```

```
System.out.println("tuesday");
```

```
break;
```

```
case 3:
```

```
System.out.println("wednesday");
```

```
break;
```

case 4:

```
System.out.println("thursday");
```

```
break;
```

case 5:

```
System.out.println("friday");
```

```
break;
```

case 6:

```
System.out.println("saturday");
```

```
break;
```

case 7:

```
System.out.println("sunday");
```

```
break;
```

default:

```
System.out.println("invalid");
```

```
break;
```

```
}
```

```
}
```

```
}
```

```
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C:\Users\Vedika\Desktop\S3-46>javac Switch.java  
  
C:\Users\Vedika\Desktop\S3-46>java Switch.java  
saturday
```

Output:

saturday