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++;
Output:
0
```

```
20406080
```

100

```
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C:\Users\karti\OneDrive\Desktop\dlca>javac Whileloop.java

C:\Users\karti\OneDrive\Desktop\dlca>java Whileloop.java
0
20
40
60
80
100

C:\Users\karti\OneDrive\Desktop\dlca>
```

2) for loop

```
class Forloop
{
  public static void main(String arg[])
  {
    int a;
for(a=0;a<=100;a++)</pre>
```

```
if(a%20==0)
       System.out.println(a);
      }
Output:
0
20
40
60
80
100
```

```
Microsoft Windows [Version 10.0.22621.2428]
(c) Microsoft Corporation. All rights reserved.

C:\Users\karti\OneDrive\Desktop\dlca>javac Forloop.java

C:\Users\karti\OneDrive\Desktop\dlca>java Forloop.java
0
20
40
60
80
100

C:\Users\karti\OneDrive\Desktop\dlca>
```

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);
Output:
0
20
40
60
80
100
```

```
C:\Windows\System32\cmd.e \times + \times \t
```

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");
}

Output:
odd number
```

```
C:\Windows\System32\cmd.e \times + \times \t
```

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");
```

```
}
}
Output :
grade A
```

```
C:\Windows\System32\cmd.e × + \
Microsoft Windows [Version 10.0.22621.2428]
(c) Microsoft Corporation. All rights reserved.
C:\Users\karti\OneDrive\Desktop\dlca>javac SecJavaProgram.java
C:\Users\karti\OneDrive\Desktop\dlca>java SecJavaprogram.java
grade A
C:\Users\karti\OneDrive\Desktop\dlca>
```

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");
}
}
```

Output:

NEGATIVE

```
Microsoft Windows [Version 10.0.22621.2428]
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C:\Users\karti\OneDrive\Desktop\dlca>javac PositiveNegativeExample.java

C:\Users\karti\OneDrive\Desktop\dlca>java PositiveNegativeExample.java

NEGATIVE

C:\Users\karti\OneDrive\Desktop\dlca>
```

```
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;
```

Output:

saturday

C:\Users\karti\OneDrive\Desktop\dlca>javac SecJavaProgram.java

C:\Users\karti\OneDrive\Desktop\dlca>java SecJavaProgram.java
saturday

C:\Users\karti\OneDrive\Desktop\dlca>