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\%5==0)
     System.out.println(a);
     } a++;
  }
```

90

95

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);
Output:
0
20
40
```

60

80

100

3) Dowhile loop:-

class Dowhileloop

```
{
    public static void main(String arg[])
int a=0;
   do
    if(a%10==0)
     System.out.println(a);
     } a++;
  } while(a<=100);</pre>
Output:
0
10
20
```

```
30
40
50
60
70
80
90
100
```

4)if else :-

public class IfElseExample {

```
public static void main(String[] args) {
    int number=10;
    if(number%2==0){
        System.out.println("even number");
    }else{
        System.out.println("odd number");
    }
}
```

even number

5) Ladder if else:-

```
class SecJavaProgram
 public static void main(String args[])
 int a=95;
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");
}
}</pre>
```

grade A

```
| Component Mindows | Program | 19.8,22621,2283| | Component Mindows | Microsoft Windows | Microsoft Windows | Microsoft Corporation | 18.8,22621,2283| | Component Mindows | Mi
```

6) nested if else:-

```
public class PositiveNegativeExample {
public static void main(String[] args) {
    int number=5;
    if(number>0){
        System.out.println("POSITIVE");
    }else if(number<0){
        System.out.println("NEGATIVE");
    }
}</pre>
```

```
}else{
    System.out.println("ZERO");
}
```

POSITIVE

```
| CWindows\textsion 10.0.22621.2283|
(c) Microsoft Windows\textsion 10.0.22621.2283|
(c) Microsoft Corporation. All rights reserved.

C:\Users\swaru\Desktop\java>javac PositiveNegativeExample.java

C:\Users\swaru\Desktop\java>java PositiveNegativeExample.java

C:\Users\swaru\Desktop\java>java PositiveNegativeExample.java

C:\Users\swaru\Desktop\java>java PositiveNegativeExample.java
```

7) switch:-

class SecJavaProgram

```
public static void main(String args[])
 int a=7;
 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:
Sunday
```

