Implement a program using basic programming constructs like Branching and Looping

1} while loop

```
class Whileloop
{
    public static void main(String args[])
            {
                int a=4;
                while(a%2==0)
                {
                   System.out.println("\n Number is even");
                   break;
                }
            }
}
```

Output :

Number is even

2} for loop

```
class Forloop
```

```
{
    public static void main(String args[])
      {
        int x;
        for(x=1;x<=10;x++)
        {
          System.out.println(x);
        }
      }
}
```

Output :

1

2

3

4

5

6

7

8

9

10

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

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");
	}
}
}
```

Output:

Even 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");
}
}
}
```

Output :

grade A

6} nested if else

```
public class PositiveNegativeExample {
public static void main(String[] args) {
      int number=15;
      if(number>0){
      System.out.println("POSITIVE");
      }else if(number<0){
      System.out.println("NEGATIVE");
      }else{
      System.out.println("ZERO");
    }
}
}
```

Output :

POSITIVE

7} switch

```
class SwitchProgram
{
   public static void main(String args[])
            {
               int a = 1 ;
               switch(a)
               {
               case 1 :
                     System.out.println("\n Monday");
                     break;
               case 2 :
                     System.out.println("\n Tuesday");
                     break;
               case 3 :
                     System.out.println("\n Wednesday");
                     break;
```

```
            case 4 :
                System.out.println("\n Thursday");
                break;
            case 5 :
                System.out.println("\n Friday");
                break;
            case 6 :
                System.out.println("\n Saturday");
                break;
            case 7 :
                System.out.println("\n Sunday");
                break;
            default :
                System.out.println("\n Not Valid");
            }
        }
}
```

Output:

Monday