```java
import java.util.Scanner;
class Controlflow
{
  // 1. Age Category Calcuator

   public static String agecal()
   {
       System.out.println("Enter age below 100 only");
       Scanner sc=new Scanner(System.in);
       int age=sc.nextInt();
       if(age<13) return "child";
       else if(age>=13&&age<=19) return "Teenager";
       else if(age>=20&&age<=59) return "Adult";
       return "Senior citizen";
   }

  //2. Powerbill calculator

   public static int powerbill()
   {
       System.out.println("Enter Units");
       Scanner sc=new Scanner(System.in);
       int units=sc.nextInt();
       if(units<=100) return (units*5);
       else if(units>100&&units<=300) return (((units-100)*7)+(100*5));
       return (((100*5)+(200*7)+(units-300)*10));

   }

   // 3. Even or odd
   public static String evod()
   {
       System.out.println("Enter a number");
       Scanner sc=new Scanner(System.in);
       int num=sc.nextInt();
       if(num%2==0) return "even";
       else return "odd";
   }

   //4. Sum of first N natural numbers

   public static int sofn()
   {
       System.out.println("Enter number of values up to be added");
       Scanner sc=new Scanner(System.in);
       int num=sc.nextInt();
       int sum=0;
       for(int i=1;i<=num;i++)
       {
           sum+=i;
       }
       return sum;
   }

   // 5 . Factorial

   public static int factorial()
   {
       System.out.println("Enter a number");
       Scanner sc=new Scanner(System.in);
       int num=sc.nextInt();
       int fact=1;
       for(int i=num;i>=1;i--)
       {
           fact*=i;
       }
```

```
    return fact
}

//6. reverse a digits
public static int revdig()
{
    System.out.println("Enter a number");
    Scanner sc=new Scanner(System.in);
    int num=sc.nextInt();
    int rem,rev=0;
    while (num!=0)
    {
        rem=num%10;
        rev=rev*10+rem;
        num=num/10;
    }
    return rev;
}

//7.maximum of three numbers
    public static int threeNum()
    {
        System.out.println("Enter three numbers seperated by space");
        Scanner sc=new Scanner(System.in);
        int a=sc.nextInt();
        int b=sc.nextInt();
        int c=sc.nextInt();

        if(a>b&&a>c) return a;
        else if (b>a&&b>c) return b;
        return c;
    }

//8. Even numbers from 1 to 50
  public static void even()
  {
    for(int i=0;i<=50;i+=2)
    {
        if(i%2==0)
        {
            System.out.print(i);
        }
    }
  }
// 9.Loan elgibilty checker
    public static String loanElgibilty()
    {
        System.out.println("Enter income &age ");
        Scanner sc=new Scanner(System.in);
        int inc=sc.nextInt();
        int age=sc.nextInt();
        if(inc>=30000&&age>=21) return "Elgible";
        return "not elgible";
    }
   // 10. Multiplication table generator

    public static void multi()
    {
        System.out.println("Enter a number");
        Scanner sc=new Scanner(System.in);
        int num=sc.nextInt();
        for(int i=0;i<=10;i++)
        {
            System.out.println(num + "X" + i + "="+(num*i));
        }
    }
```

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

                System.out.println(agecal());
                System.out.println(powerbill());
                System.out.println(evod());
                 System.out.println(sofn());
                System.out.println(revdig());
                System.out.println(threeNum());
                even();
                System.out.println(loanElgibilty());
                multi();
        }
}
```