1.

```
import java.util.*;
class  code
{
   static void pos(int a)
   {
      for(int i=a-1;i>=0;i--)
      {
         System.out.print(i+" ");
      }
   }

   static void neg(int a)
   {
      for(int i=a;i<=0;i++)
      {
         System.out.print(i+" ");
      }
   }

   public static void main(String[] args) {
      Scanner scan=new Scanner(System.in);
      int n=scan.nextInt();
      if(n==0) System.out.println("already zero");
      if(n>0) pos(n);
      else neg(n);
```

```
    }

}
```

2.

```
import java.util.*;

class  code
{
   private int pin = 1234;
         private int balance = 0;

   public int available()
   {
      return balance;
   }

         public int  my_pin()
   {
      return pin;
   }

   public void Deposit(int amount)
         {
                  balance+=amount;
```

```
        }

        public int Withdraw(int amount)
        {
                if(balance<amount) return -1;
                balance-=amount;
                return 1;
        }

        public int BalanceEnquiry()
        {
                return available();
        }

        public void PinChange(int newpin)
        {
                pin=newpin;
        }
}

class bank
{
        public static void main(String[] args)
        {
                code obj=new code();
      Scanner scan=new Scanner(System.in);
```

```
int amount=0, newpin=0;

            System.out.println("Enter the pin:");
            int oldpin=scan.nextInt();

            if(oldpin==obj.my_pin())
            {
                  while(true)
                  {
                        System.out.println("Enter your
choice\n1.Deposit\n2.Withdrawal \n3.Balance enquiry\n4.PIN
change\n5.Exit");
                        int choice=scan.nextInt();

                        switch(choice)
                        {
                        case 1: System.out.println("Enter the amount you
want to deposit:");
             amount=scan.nextInt();
             if(amount%100==0)
             {
                obj.Deposit(amount);
                                          System.out.println("available
amount is "+ obj.available());
             }
             else
```

```
                                        {
                                                System.out.println("Invalid
amount");
                                        }
                                        break;
                                case 2:         System.out.println("Enter the amount
you want to withdraw:");
                        amount=scan.nextInt();
                        if(amount%100==0)
                                        {
                                                if(obj.Withdraw(amount)==-1)
                                                System.out.println("Insufficient
amount\n");
                                                else System.out.println("available
amount is "+ obj.available());
                                        }
                                        break;
                                case 3: System.out.println("available balance is:
"+obj.BalanceEnquiry());
                                        break;
                                case 4:         System.out.println("Enter the new pin:");
                        newpin=scan.nextInt();
                                        obj.PinChange(newpin);
                                        System.out.println("pin updated
successfully\n");
                                        break;
                                case 5:System.exit(0);
                                        break;
```

```
                                default: System.out.println("Invalid Choice");
                                }
                        }
                }
        else
        {
            System.out.println("Invalid pin");
        }
          }
}
```

3.

```
import java.util.*;
class  code
{
   static boolean isprime(int n)
   {
      for(int i=2;(i*i)<=n;i++)
         if(n%i==0) return false;
      return true;
   }

   static boolean SumPrime(int a, int b)
   {
      return (isprime(a) && isprime(b) && isprime(a+b))? true:false;
   }
```

```
    public static void main(String[] args) {
        Scanner scan=new Scanner(System.in);

        System.out.println(SumPrime(2,3));
        System.out.println(SumPrime(7,11));
        System.out.println(SumPrime(3,7));
        System.out.println(SumPrime(8,11));

    }

}
```

4.

```
import java.util.*;
class  code
{
    static void stringTimes(String str, int a)
    {
        String s="";
        for(int i=1;i<=a;i++)
            s+=str;
        System.out.println(s);
    }
    public static void main(String[] args) {
        Scanner scan=new Scanner(System.in);
```

```
        String str=scan.next();
        int a=scan.nextInt();
        stringTimes(str, a);
    }

}
```

5.

```
import java.util.*;
class  code
{
    public static void main(String[] args) {
        Scanner scan=new Scanner(System.in);

        int query=0, a=0, b=0, n=0, term=0;;
        query=scan.nextInt();

        for(int i=1;i<=query;i++)
        {
            a=scan.nextInt();
            b=scan.nextInt();
            n=scan.nextInt();

            term=(int)(a+Math.pow(2, 0)*b);
            System.out.print(term+" ");

            for(int j=1;j<n;j++)
```

```
        {
            term+=Math.pow(2, j)*b;
            System.out.print(term+" ");
        }
        System.out.println("\n");
      }
   }
}
```