```
public class Armstrong {
  public static void main(String[] args) {
    int number = 371, originalNumber, remainder, result = 0;
    originalNumber = number;
    while (originalNumber != 0)
    {
      remainder = originalNumber % 10;
      result += Math.pow(remainder, 3);
      originalNumber /= 10;
    }
    if(result == number)
      System.out.println(number + " is an Armstrong number.");
    else
      System.out.println(number + " is not an Armstrong number.");
 }
}
```

```
//program to find armstrong number
class armstrong
{
  public static void main(String[] args)
  {
     int a,n,r,n1,ans;
       system.out.println(" Armstrong numbers between 100 to 999 are as follows:");
       for(a=100;a<999;a++);
       {
           n=a;
           ans=0;r=0;
           while(n>0)
          {
             r=n%10;
             ans=ans+(r*r*r);
             n=n/10;
         }
        if(a==ans)
         system.ou.println(a);
   }
```

```
//income tax
class Income
{
        public static void main(String args[])
       {
       double t=0;
       Scanner sc=new Scanner(System.in);
       System.out.println("Enter income ");
       double i=sc.nextDouble();
       t=incomeTax(i);
       System.out.println("Income tax amount is "+t);
       }
static double incomeTax(double i)
{
       double tax;
       if(i<=180000)
               tax=0;
       else if(i<=300000)
               tax=0.1*(i-200000);
       else if(i<=500000)
               tax=(0.2*(i-300000))+10000;
       else if(i<=1000000)
               tax=(0.3*(i-500000))+50000;
        return tax;
}
```

}

```
//supply marks
import java.util.Scanner;
class result
{
   public static void main(String[] args)
   {
      Scanner sc=new Scanner(System.in);
          System.out.println("Enter Physics marks:");
          int s1=sc.nextInt();
          System.out.println("Enter Chem marks:");
          int s2=sc.nextInt();
          System.out.println("Enter Maths marks:");
          int s3=sc.nextInt();
      if (s1>60 && s2>60 && s3>60)
         {
              System.out.println("pass");
         }
         else if ((s1>60 && s2>60) || (s1>60 && s3>60) || (s2>60 && s3>60))
               {
                       System.out.println("Promoted");
            }
      else
        {
           System.out.println("Fail");
               }
 }
}
```

```
import java.util .*;
class sici
{
  public static void main (String argu[ ])
{
  double pr, rate, t, sim,com;
  Scanner sc=new Scanner (System. in);
  System.out.println("Enter the amount:");
  pr=sc.nextDouble();
  System. out. println("Enter the No.of years:");
  t=sc.nextDouble();
  System. out. println("Enter the Rate of interest");
  rate=sc.nextDouble();
  sim=(pr * t * rate)/100;
  com=pr * Math.pow(1.0+rate/100.0,t) - pr;
  System.out.println("Simple Interest="+sim);
  System.out. println("Compound Interest="+com);
 }
}
```

```
package com.cap;
class Sort
{
void bubbleSort(int arr[])
{
int n = arr.length;
for (int i = 0; i < n-1; i++) {
for (int j = 0; j < n-i-1; j++) {
if (arr[j] > arr[j+1]){
int temp = arr[j];
arr[j] = arr[j+1];
arr[j+1] = temp;
}
}
}
}
void printArr(int arr[])
{
int n = arr.length;
for (int i=0; i<n; ++i)
System.out.print(arr[i] + " ");
System.out.println();
}
public static void main(String args[])
{
Sort b = new Sort();
int arr[] = {5,12,14,6,78,19,1,23,26,35,37,7,52,86,47};
b.bubbleSort(arr);
System.out.println("Sorted array");
b.printArr(arr); }
}
```

```
package com.cap;
public class Search {
public static void main(String[] args) {
int[] arr= {5,12,14,6,78,19,1,23,26,35,37,7,52,86,47};
int element=19;
int pos=-1;
for(int i=0;i<arr.length;i++) {
if(arr[i]==element) {
pos=i;
break;
}
}
if(pos==-1) {
System.out.println("Not Found");
}
else {
System.out.println(element+" found at position "+pos);
}
}
}
```