1) Reversed Number:-

```
import java.util.Scanner;
    Public class number{
     Public static void main(String[] args){
     Scanner input = new Scanner(System.in);
      int n = input.nextint();
     System.out.print("Enter a number:");
      int rem, rev=0;
     while(n!=0){
          rem=n%10;
          rev=rev*10+rem;
          n=n/10;
        }
System.out.println("reversed number:"+rev);
      }
   }
```

Output:-

number= 54321

Rev= 12345

192224012

2) Amstrong number:-

```
import java.util.scanner;
Public class number{
    Public static void main(string[] args){
    scanner input= new scanner(System.in);
    S.o.P(" enter a number:");
    int n= input.nextInt();
    int t, digit, sum=0
    int temp=n;
    while(n>0){
        digit = t%10;
        sum= sum+digit*digit*digit;
        t/=10;
    }
if(sum==n)
        S.o.P(" Amstrong ");
else
    S.o.P(" not Amstrong ");
}
```

output: N= 153

o/p: Amstrong

3) GCD of two numbers:

```
Public class GCD {

  Public Static void main(String[] args)

{
int N1 =12 , N2 =8, Temp, GCD=0;

while(N2 !=0) {

      Temp = N2;
       N2 = N1%N2;
       N1 = Temp;

    }

  GCD = N1

S.O.P(" GCD = "+GCD);

 }

}
```

Output:

4) Merge Two sorted array:-

```
import Java.util.Arrays;
   Public class Merge sorted Arrays{
   public static void main(String[]args){
        int[] arr1 = [1,3,5]
        int[] arr2 = [2,4,6]
int[] merged = new int (arr1.length+arr2.
                        length);

    int i = 0; j=0, k=0;

while(i<arr1.length && j<arr2.length){

   merged[k++)=arr(i)<arr2[i]?
          arr1[i++):arr2[j++];

 }
while(i<arr1.length) merged(k++)=arr1(i++);
while(j<arr2.length) merged(k++)=arr2[j++];
S.O.P("Array.to string(merged));
   }
 }
```

output:

input : {1,3,5} {2,4,6}

{1,2,3,4,5,6}

```
import Java.util.Hash map;
  import Java.util.Map;
  Public class Character frequency {
public static void main(String[] args){
     String input = "Hello";
  count characterfrequency(input);
  }
public static void count characterfrequency
 (String str){
Map<character, Integer> frequency map
      get or default(ch,0)+1);
for(char ch: str.to char Array()){
frequency map.put(ch, freq any map.get or
                  default(ch,0)+1));

S.O.P(entry.get key() +"; "+entry.
                  get value());

    }
  }
}
```

O/P :- input : Hello

O/P n : 1