JAVA

1) public class Caeser {

String plain;

int key;

Caeser(String text,int k)

{

plain =text;

key =k;

}

String encrypt()

{

String out="";char ch;

for(int i=0;i<plain.length();i++)

{

if(Character.isUpperCase(plain.charAt(i)))

ch=(char)(((int)plain.charAt(i)-97+key)%26+97);

else

ch=(char)(((int)plain.charAt(i)-97+key)%26+97);

out =out+ch;

}

return out;

}

public static void main(String[] args) {

Caeser c=new Caeser("okay",3);

String out=c.encrypt();

System.out.println(" "+out);

}

}

2) public class Subsitution{

String plain;

Subsitution (String text)

{

plain =text;

}

String encrypt()

{

String alpha="abcdefghijklmnopqrstuvwxyz";

String sub="mnbvcxzlkjhgfdsapoiuytrewq";

String out="";

for(int i=0;i<plain.length();i++)

{

char ch=plain.charAt(i);

int p=alpha.indexOf(ch);

char chr=sub.charAt(p);

out =out+chr;

}

return out;

}

public static void main(String[] args) {

Subsitution c=new Subsitution("ramusrss");

String out=c.encrypt();

System.out.println(" "+out);

}

}

3) public class Latincipher{

String plain;

Latincipher (String text)

{

plain =text;

}

String encrypt()

{

String alpha="abcdefghijklmnopqrstuvwxyz";

String out="";

for(int i=0;i<plain.length();i++)

{

char ch=plain.charAt(i);

int p=alpha.indexOf(ch)+1;

out =out+p+" ";

}

return out;

}

public static void main(String[] args) {

Latincipher c=new Latincipher("manoj sandeep");

String out=c.encrypt();

System.out.println(" encryption : "+out);

}

}

4) class Latincipher{

String plain;

Latincipher (String text)

{

plain =text;

}

String encrypt()

{

String alpha="abcdefghijklmnopqrstuvwxyz";

String out="";

for(int i=0;i<plain.length();i++)

{

char ch=plain.charAt(i);

int p=alpha.indexOf(ch)+1;

out =out+p+" ";

}

return out;

}

public static void main(String[] args) {

Latincipher c=new Latincipher("manoj sandeep");

String out=c.encrypt();

System.out.println(" encryption : "+out);

}

}

5) class Employee{

String firstname;

String lastname;

double salary;

public Employee(String fn,String ln,double sal){

firstname = fn;

lastname = ln;

if(salary<0){

salary=0.0;

}

else{

salary = sal;

}

}

void setFn(String fn){

firstname = fn;

}

void setLn(String ln){

lastname=ln;

}

void setSal(double sal){

if(salary<0){

salary=0.0;

}

else{

salary = sal;

}

}

String getFn(){

return firstname;

}

String getLn(){

return lastname;

}

double getsal(){

return salary;

}

double sal(int percent){

salary+=salary\*((percent/100.0));

return salary;

}

}

public class Main

{

public static void main(String[] args) {

Employee em1 = new Employee("manoj","sandeep",60000);

Employee em2 = new Employee("pain","astra",70000);

System.out.println(em1.getFn() + em1.getLn() +em1.getsal());

System.out.println(em2.getFn() + em2.getLn() +em2.getsal());

double s = em1.sal(10);

System.out.println("Annual salary is " + (s\*12));

double s2 = em2.sal(15);

System.out.println("Annual salary is " + (s2\*12));

}

}

6) class Invoice{

String partnumber;

String partdescription;

double price;

int quantity;

public Invoice(String pno,String pds,double rate,int qu){

partnumber = pno;

partdescription = pds;

price = rate;

quantity = qu;

if(price<0){

price=0.0;

}

else{

price = rate;

}

if(quantity<0){

quantity=0;

}

else{

quantity = qu;

}

}

void setPno(String pno){

partnumber = pno;

}

void setPds(String pds){

partdescription = pds;

}

void setPrice(double rate){

if(price<0){

price=0.0;

}

else{

price = rate;

}

}

void setQu(int qu){

if(quantity<0){

quantity=0;

}

else{

quantity = qu;

}

}

String getPno(){

return partnumber;

}

String getPds(){

return partdescription;

}

double getPrice(){

return price;

}

int getQuant(){

return quantity;

}

double getInvoice(){

return (price\*quantity);

}

}

public class Main

{

public static void main(String[] args) {

Invoice i = new Invoice("monitor","key board",1720,7);

System.out.println("the invoice is " + i.getPno() + " "+i.getPds()+" "+i.getPrice()+" "+i.getQuant());

double bill = i.getInvoice();

System.out.println("the net amount is "+ bill );

}

}