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\* Course: CPSC 223J

\* Project: Project 2

\* Due date: Sept. 8st. 2016

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\* Purpose: This program calculate the exchange rate between dollar and other currency

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**public** **class** Project2\_1 {

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

**double** dollar = 10.0;

String title = " $ \u00a5 \u00a3 \u20ac </u>";

System.***out***.println(" $ \u00a5 \u00a3 \u20ac\033");

//System.out.println();

**int** count = 30;

**for**(**int** j=0; j<count; j++){

System.***out***.print("\u005f");

}

System.***out***.println();

//System.out.println("————------------------------");

**for**(dollar = 10;dollar <= 100.0; dollar+=10){

**double** yen = dollar \* 103.45;

**double** pound = dollar \* 0.75;

**double** euro = dollar \* 0.9;

System.***out***.printf("%-6.2f %-8.2f %-6.2f %4.2f %n",dollar,yen,pound,euro);

}

}

}

/\*

$ ¥ £ €\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

10.00 1034.50 7.50 9.00

20.00 2069.00 15.00 18.00

30.00 3103.50 22.50 27.00

40.00 4138.00 30.00 36.00

50.00 5172.50 37.50 45.00

60.00 6207.00 45.00 54.00

70.00 7241.50 52.50 63.00

80.00 8276.00 60.00 72.00

90.00 9310.50 67.50 81.00

100.00 10345.00 75.00 90.00

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\* Purpose: this program count how many uppercases, digits and vowels in the sentence

\*/

**import** java.util.\*;

**public** **class** Project2\_2 {

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

Scanner read = **new** Scanner(System.***in***);

String sentence;

System.***out***.print("Enter sentence: ");

sentence = read.nextLine();

**int** upperCase=0, digit=0, vowel=0;

**int** i=0;

**char** ch;

**while**(i!=sentence.length()){

ch = sentence.charAt(i);

//check digits and upperCase

**if**(Character.*isUpperCase*(ch)){

upperCase++;

}**else** **if**(Character.*isDigit*(ch)){

digit++;

}

//check vowel

**char** lower = Character.*toLowerCase*(ch);

**if**(lower == 'a' || lower == 'e' || lower=='i' || lower=='o' || lower=='u'){

vowel++;

}

i++;

}

System.***out***.println("Number of uppercase letters............" + upperCase

+ "\nNumber of digits......................." + digit

+ "\nNumber of vowels......................." + vowel);

}

}

/\*

Enter sentence: Today Is Thr May 3, 2016

Number of uppercase letters............4

Number of digits.......................5

Number of vowels.......................4

\*/

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\* Purpose: This program give a addition problem about two random number which is less than 100

\*/

**import** java.lang.\*;

**import** java.util.Scanner;

**public** **class** Project2\_3 {

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

**char** Continue = 0;

**int** first, second, result;

Scanner read = **new** Scanner(System.***in***);

**do**{

first = (**int**)(Math.*random*()\*100);

second = (**int**)(Math.*random*()\*100);

System.***out***.print(first + " + " + second + " =? ");

result = read.nextInt();

**if**(first+second != result){

System.***out***.println(" WRONG");

}

System.***out***.println(" CORRECT");

System.***out***.print("Continue(y/n)? ");

Continue = read.next().charAt(0);

}**while**(Continue=='y'|| Continue == 'Y');

}

}

/\*

71 + 59 =? 130

CORRECT

Continue(y/n)? y

42 + 2 =? 44

CORRECT

Continue(y/n)? n

\*/

/\*

\* Purpose: The program read the input and coount the votes

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**import** java.util.Scanner;

**public** **class** Project2\_4 {

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

Scanner read = **new** Scanner(System.***in***);

String votes;

**int** yVotes = 0, nVotes = 0;

System.***out***.print("Enter a string of YES and NO votes: ");

votes = read.nextLine();

**int** i=0;

**while**(i!=votes.length()){

**if**(votes.charAt(i) == 'y' || votes.charAt(i)=='Y'){

yVotes++;

}**else**{

nVotes++;

}

i++;

}

System.***out***.print("YES votes: ");

**for**(**int** j = 0; j<yVotes; ++j) System.***out***.print('\*');

System.***out***.println();

System.***out***.print("NO votes: ");

**for**(**int** j = 0; j<nVotes; ++j) System.***out***.print('\*');

}

}

/\*

Enter a string of YES and NO votes: yynnyynn

YES votes: \*\*\*\*

NO votes: \*\*\*\*

\*/

Back:

Question 3 Purpose: read the input name and print it with upper case

**import** java.util.\*;

**public** **class** Project2\_back {

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

Scanner read = new Scanner(System.in);

String name;

System.out.print("Enter your full name: ");

name = read.nextLine();

System.out.println("All uppercase: "+name.toUpperCase());

System.***out***.println();

}

}

Question 5 Purpose: print starts

A:

**import** java.util.\*;

**public** **class** Project2\_back {

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

System.***out***.println();

**int** k=5;

**for**(**int** i = 0; i<5; i++){

**for**(**int** j=k; j>0;j--){

System.***out***.print("\*");

}

System.***out***.println();

k--;

}

}

}

B:

**import** java.util.\*;

**public** **class** Project2\_back {

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

System.***out***.println();

**int** k=1;

**for**(**int** i = 0; i<5; i++){

**for**(**int** j=k; j>0;j--){

System.***out***.print("\*");

}

System.***out***.println();

K++;

}

}

}

Question 6:

A:

**import** java.util.\*;

**public** **class** Project2\_back {

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

System.***out***.println();

**int** k=5;

String st="";

**for**(**int** i = 0; i<5; i++){

**for**(**int** j=k-5; j<1;j++){

st += k;

}

System.***out***.printf("%5s",st);

System.***out***.println();

k--;

st="";

}

}

}

B:

**import** java.util.\*;

**public** **class** Project2\_back {

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

System.***out***.println();

**int** k=5;

String st="";

**for**(**int** i = 0; i<5; i++){

**for**(**int** j=k; j>0;j--){

st += 6-j;

}

System.***out***.printf("%5s",st);

System.***out***.println();

k--;

st="";

}

}

}