**Mini project exercises**

**Level 1**

import java.util.Scanner;

public class MyClass {

public static void main(String args[]) {

char letter = name();

printMessage();

}

public static char name(){

System.out.println("Please enter a letter of your choice");

Scanner scan = new Scanner(System.in);

char letter1 =scan.nextLine().charAt(0);

return letter1;

}

public static void printMessage() {

System.out.println("Interesting");

}

}

public class MyClass {

int num = num1();

}

}

**Level 2 mini project**

import java.util.Scanner;

import java.util.Random;

public class MyClass {

public static void main(String args[]) {

char letter = name();

int result = rollDice();

printMessage(result + " ");

}

public static char name(){

System.out.println("Please enter a letter of your choice");

Scanner scan = new Scanner(System.in);

char letter1 =scan.nextLine().charAt(0);

return letter1;

}

public static void printMessage(String answer) {

System.out.println(answer);

}

public static int rollDice(){

System.out.println("Your score is");

Random roll = new Random();

int roll1 = roll.nextInt(6)+1;

return roll1;

}

}

Short exercised 4 Records

import java.util.Scanner;

public class record {

public static void main(String args[]) {

describeObject();

System.exit(0);

}

public static void describeObject(){

System.out.println("What room are you in?");

Scanner scan = new Scanner(System.in);

char input = scan.nextLine().charAt(0);

MuseumObject item1 = new MuseumObject();

item1.name = "Roman Mosaic";

item1.year = 150;

item1.description ="Small cube of different coloured stone that together makeup a picture, here of a star";

MuseumObject item2 = new MuseumObject();

item2.name = "Roman Mosaic";

item2.year = 2017;

item2.description = "item2";

MuseumObject item3 = new MuseumObject();

item3.name = "Roman Mosaic";

item3.year = 990;

item3.description = "item3";

if (input == 'A'){

System.out.println("A" +" " + item1.name + " "+item1.year +" "+ item3.description);

}

}

}

class MuseumObject

{

String name;

int year;

String description;

}

Mini project level 3 and 4n

import java.util.Scanner;

import java.util.Random;

public class MyClass {

public static void main(String args[]) {

boolean correct = askQuestion();

if (correct) {

int result = rollDice();

printMessage(result + " ");

}

System.exit(0);

}

public static boolean askQuestion(){

System.out.println("Who is the main character in the flim Trolls?");

System.out.println("A. Poppy\nB. Creek\nC. Cooper\nD. Branch");

Scanner scan = new Scanner(System.in);

char answer= scan.nextLine().charAt(0);

answer = Character.toUpperCase(answer);

return marking(answer ,'A');

}

public static boolean marking (char answer , char correct)

{

Quizrecord input = new Quizrecord();

input.question = "Who is the main character in the film Trolls?";

Quizrecord input1 = new Quizrecord();

input1.correct = 'A';

System.out.println(input.question + "\n" + input1.correct);

if (answer == correct) {

System.out.println("Hurry!! You got it right");

return true;

}3 else{

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

return false;

}

}

public static void printMessage(String answer) {

System.out.println(answer);

}

public static int rollDice(){

System.out.print("Your score is ");

Random roll = new Random();

int roll1 = roll.nextInt(6)+1;

return roll1;

}

}

class Quizrecord{

String question;

char correct;

}

Short exercised 6 – array

import java.util.Scanner;

public class MyClass {

public static void main(String args[]) {

musicDownload();

System.exit(0);

}

public static void musicDownload(){

Scanner scan = new Scanner(System.in);

String[] name = new String[4];

int[] amount = new int[4];

int x =0;

int maxAmount =0;

String maxn= " ";

int add =0;

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

x = i+1;

System.out.print("What is track " + x + "? ");

name[i] = scan.nextLine();

System.out.print("How many thousands of times has it been downloaded? ");

amount[i] = Integer.parseInt(scan.nextLine());

if (amount[i] > maxAmount){

maxAmount = amount[i];

maxn = name[i];

}

add = add + amount[i];

}

System.out.println("The track downloded the most is " + maxn);

System.out.println("The total number of downloads of these 4 tracks was " + add\*1000 );

System.out.println("The details of the downloads are : ");

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

{

System.out.println(name[i] + " , " + amount[i]\*1000);

}

}

}