Ques 1

import java.util.\*;

public class Leap\_year {

public static void main(String[] args) {

System.out.println("Enter the year");

Scanner sc = new Scanner(System.in);

int year = sc.nextInt();

if(year%4==0)

{

if(year%100==0)

{

if(year%400==0)

System.out.println("Leap year");

else

System.out.println("Normal year");

}

else

System.out.println("Leap year");

}

else

System.out.println("normal year");

}

}

Ques 2

import java.util.Scanner;

public class Temp {

public static void main(String[] args) {

System.out.println("Enter the temperature type (f or s)");

Scanner sc = new Scanner(System.in);

int ttype = sc.next().charAt(0);

double ans =0;

System.out.println("Now enter the temperature");

double temperature= sc.nextDouble();

if(ttype == 'f' || ttype=='F')

{

ans = ((temperature-32)\*5)/9;

}

else if (ttype=='c'|| ttype =='C')

{

ans =((temperature \* 9)/5)+32;

}

else{

System.out.println("Invalid");

}

System.out.println("Final answer after conversion is "+ ans);

}

}

Ques 3

package advance;

import java.util.Scanner;

public class Area {

public static void main(String[] args) {

Scanner sc = new Scanner(System.in);

System.out.println("Enter the shape (triangle , square, rectangle");

String shape = sc.nextLine();

System.out.println("Now enter if you want area or volume");

String operation = sc.nextLine();

double area =0,volume=0;

shape= shape.toLowerCase();

operation= operation.toLowerCase();

if(shape .equals("triangle"))

{

System.out.println("Enter Base and height ");

int b = sc.nextInt();

int h = sc.nextInt();

if(operation.equals("area"))

{

area= 0.5 \*b\*h;

}

if(operation.equals("volume"))

{

System.out.println("Triangle has no volume");

}

}

if(shape .equals("rectangle"))

{

System.out.println("Enter Length and Breadth ");

int b = sc.nextInt();

int l = sc.nextInt();

if(operation.equals("area"))

{

area=b\*l;

}

if(operation.equals("volume"))

{

System.out.println("Rectangle has no volume");

}

}

if(shape .equals("Square"))

{

System.out.println("Enter Side ");

int s = sc.nextInt();

if(operation.equals("area"))

{

area= s\*s;

}

if(operation.equals("volume"))

{

System.out.println("Square has no volume");

}

}

System.out.println("The area of desired figure is "+ area);

}

}

Ques 5

package advance;

import java.util.\*;

public class Mark {

public static void main(String[] args) {

System.out.println("Enter your marks out of 100 in 5 subjects");

Scanner sc = new Scanner(System.in);

int m1 = sc.nextInt();

int m2= sc.nextInt();

int m3 = sc.nextInt();

int m4 = sc.nextInt();

int m5 = sc.nextInt();

int marks = m1+m2+m3+m4+m5;

if(marks >500)

{

System.out.println("Invalid Marks");

}

double grade =0;

grade = marks/5;

if(grade>90 )

{ System.out.println("A grade");

}

else if(grade>75)

{ System.out.println("B grade");

}

else if (grade >60){

System.out.println("C grade");

}

else if (grade >45){

System.out.println("D grade");

}

else

{

System.out.println("Fail");

}

}

}

Ques 6

package advance;

import java.util.Scanner;

public class height {

public static void main(String[] args) {

System.out.println("Enter your heigh (in cm)t");

Scanner sc = new Scanner(System.in);

double height= sc.nextDouble();

if(height>=180)

System.out.println("Tall");

else if (height>= 150)

System.out.println("Mid");

else{

System.out.println("Low");

}

}

}

Ques7

package advance;

import java.util.\*;

public class Main {

public static void main(String[] args) {

Scanner sc = new Scanner(System.in);

System.out.println("Enter your name");

String name = sc.nextLine();

System.out.println("Enter your father's name");

String fname = sc.nextLine();

System.out.println("Enter your roll number");

int roll = sc.nextInt();

System.out.println("Enter your marks out of 100 in 3 subjects");

int m1 = sc.nextInt();

int m2= sc.nextInt();

int m3 = sc.nextInt();

int marks = m1+m2+m3;

if(marks >300)

{

System.out.println("Invalid Marks");

return ;

}

double percentage;

percentage = marks/3;

System.out.println("Name: "+name);

System.out.println("Father's name: "+fname);

System.out.println("Roll no.: "+roll);

System.out.println("Percentage: "+percentage);

System.out.print("Grade :");

if(percentage>90 )

{ System.out.print("A grade");

}

else if(percentage>75)

{ System.out.print("B grade");

}

else if (percentage >60){

System.out.print("C grade");

}

else if (percentage >45){

System.out.print("D grade");

}

else

{

System.out.print("Fail");

}

}

}

Ques 8

package advance;

import java.util.\*;

public class Mark {

public static void main(String[] args) {

System.out.println("Enter your marks out of 100 in 5 subjects");

Scanner sc = new Scanner(System.in);

int m1 = sc.nextInt();

int m2= sc.nextInt();

int m3 = sc.nextInt();

int m4 = sc.nextInt();

int m5 = sc.nextInt();

int marks = m1+m2+m3+m4+m5;

if(marks >500)

{

System.out.println("Invalid Marks");

}

double grade =0;

grade = marks/5;

if(grade>=80 )

{ System.out.println("A grade");

}

else if(grade>=60)

{ System.out.println("B grade");

}

else if (grade >50){

System.out.println("C grade");

}

else if (grade >45){

System.out.println("D grade");

}

else

{

System.out.println("Fail");

}

}

}

Ques 9

import java.util.Scanner;

public class Max3 {

public static void main(String [] args)

{

Scanner sc = new Scanner(System.in);

System.out.println("Enter 3 numbers");

int x = sc.nextInt();

int y = sc.nextInt();

int z = sc.nextInt();

if(x>=y && x>=z)

System.out.println(x +" is greatest");

if(y>=z && y>=x)

System.out.println(y+ " is greatest");

if(z>=y && z>=x)

System.out.println(z+" is greatest");

}

}

Ques 11

package advance;

import java.util.Scanner;

public class Electricity {

public static void main(String[] args) {

Scanner sc = new Scanner(System.in);

System.out.println("Enter your name");

String name = sc.nextLine();

System.out.println("Enter your Address");

String address = sc.nextLine();

System.out.println("Enter your Bank details");

String bank = sc.nextLine();

System.out.println("Enter your Salary");

double salary = sc.nextInt();

System.out.println("Enter your Holidays");

int holidays= sc.nextInt();

double inhand=0;

System.out.println("Name: "+name);

System.out.println("Father's name: "+address);

System.out.println("Bank details : "+bank);

System.out.println("Base Salary: "+salary);

System.out.println("Holidays taken :"+holidays);

if(holidays<0)

{

System.out.println("Invalid");

return;

}

if(holidays==1 ||holidays==0 )

{ inhand=salary;

}

else if(holidays>=2 && holidays<=5)

{ inhand= 0.95 \* salary;

}

else if (holidays>5 && holidays<=14 ){

inhand= 0.9 \*salary;

}

else if (holidays >=15){

inhand=0.5\*salary;

}

else

{System.out.println("No salary");

return ;

}

System.out.print("Your final alloted Salary: "+inhand);

}

}

Ques 12

package advance;

import java.util.Scanner;

public class Electricity {

public static void main(String[] args) {

Scanner sc = new Scanner(System.in);

System.out.println("Enter your name");

String name = sc.nextLine();

System.out.println("Enter your units consumed");

int units= sc.nextInt();

int bill =0;

int discount =0;

System.out.println("Name: "+name);

System.out.println("Units Consumed :"+units);

if(units<0)

{

System.out.println("Invalid");

return;

}

bill= (10\*units) ;

if(units==0 )

{

discount=0;

}

else if(units>=1 && units<=10)

{ discount= 10;

}

else if (units>11 && units<=20 ){

discount=15;

}

else if (units >=21 && units <=40){

discount=30;

}

else{

discount=50;

}

int final\_bill =(100-discount)\*bill/100;

System.out.println("Discount"+ discount+"%");

System.out.print("Your final Bill: "+final\_bill);

}

}

Ques 13

package advance;

import java.util.\*;

public class Customer\_retailer {

public static void main(String[] args) {

Scanner sc = new Scanner(System.in);

System.out.println("Enter your name");

String name = sc.nextLine();

System.out.println("Enter your units purchased");

int units= sc.nextInt();

int discount =0;

System.out.println("Name: "+name);

System.out.println("Units purchased :"+units);

if(units<=0)

{

System.out.println("Invalid");

return;

}

if(units>=1 && units<=15)

{ discount= 15;

}

else if (units>16 && units<=30 ){

discount=30;

}

else if (units >=31 && units <=50){

discount=50;

}

else{

System.out.println("Max 50 units allowed to retailers");

return;

}

System.out.println("Discount"+ discount+"%");

}

}