1.

import java.util.\*;

class Main {

public static void main(String[] args) {

int dayno;

String daytype="",day="";

Scanner sc= new Scanner (System.in);

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

dayno=sc.nextInt();

switch(dayno){

case 1:daytype="weekday";

day="monday"; break;

case 2:daytype="weekday";

day="tuesday"; break;

case 3:daytype="weekday";

day="wednesday"; break;

case 4:daytype="weekday";

day="thursday"; break;

case 5:daytype="weekday";

day="friday"; break;

case 6:daytype="weekend";

day="saturday"; break;

case 7:daytype="weekend";

day="sunday"; break;

default: day ="Invalid input"; break;

}

System.out.println("day"+"is"+"daytype");

}

}

2.

import java.util.\*;

public class Main{

public static void main(String[] args)

{

int a,b,ch;

Scanner sc=new Scanner(System.in);

System.out.println("Enter value of a & b");

a=sc.nextInt();

b=sc.nextInt();

do

{

System.out.println("1:addition of 2 numbers\n");

System.out.println("2:swap of 2 numbers\n");

System.out.println("3:max from 2 numbers\n");

System.out.println("4:min from 2 numbers\n");

System.out.println("5:exit\n");

System.out.println("enter u r choice");

ch=sc.nextInt();

switch(ch)

{

case 1: System.out.println("add="+(a+b)) ;break;

case 2:

a=a+b;

b=a-b;

a=a-b;

System.out.println("a = "+a+" b = "+b);

break;

case 3:

if(a>b)

{

System.out.println(a+" is max");

}

else if(b>a)

{

System.out.println(b+" is max");

}

else

{

System.out.println("euquals");

}

break;

case 4:

if(b<a)

{

System.out.println(b+" is min");

}

else if(a<b)

{

System.out.println(a+" is min");

}

else

{

System.out.println("euquals");

}

break;

case 5: System.exit(0);break;

default:System.out.println("invalid choice");

}

}while(ch<=5);

}

}

3.

import java.util.\*;

public class Main

{

public static void main(String[] args) {

int ch;

double r,A,b;

Scanner sc=new Scanner(System.in);

do

{

System.out.println("1:Area of circle \n 2:Area of traingle\n3:Area of rectangle\n4:Kinetic Energy");

System.out.println("5:Am & HM");

System.out.println("enter u r choice");

ch=sc.nextInt();

switch(ch)

{

case 1:

System.out.println("enter r");

r=sc.nextDouble();

A=3.14\*r\*r;

System.out.println("Area="+A);

break;

case 2:

System.out.println("enter b & h");

b=sc.nextDouble();

double h=sc.nextDouble();

A=0.5\*b\*h;

System.out.println("Area of triangle="+A);

break;

case 3:

System.out.println("enter b & l");

b=sc.nextDouble();

double l=sc.nextDouble();

A=l\*b;

System.out.println("Area of Rect="+A);

break;

case 4:

System.out.println("enter m & v");

double m=sc.nextDouble();

double v=sc.nextDouble();

A=0.5\*m\*v;

System.out.println("KE="+A);break;

case 5:

System.out.println("enter a & b");

double a=sc.nextDouble();

b=sc.nextDouble();

double am=(a+b)/2;

System.out.println("AM="+am);break;

// add 3 extra cases

default:System.out.println("invalid choice");;

}

}while(ch<=5);

}

}

4.

import java.util.\*;

class Main{

public static void main(String []args){

int ch,n,A;

Scanner sc=new Scanner(System.in);

//double uc=0,bc=128,tax, find;

do

{

System.out.println("1:first no is between second and third\n 2:min from 3 number\n 3:max from 3 number\n 4:ATKT\n 5:triangle\n 6:blood donation\n 7:apptitude exam");

//Console.WriteLine("5:Am &HM");

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

ch=sc.nextInt();

switch(ch)

{

case 1:System.out.println("enter a,b,c ");

int a=sc.nextInt();

int b=sc.nextInt();

int c=sc.nextInt();

if((a>b && a<c) || (a>c && a<b))

{

System.out.println(a+ "is between b and c" );

}

else

{

System.out.println(a+ "is not between b and c");

}

break;

case 2:System.out.println("enter a,b,c ");

a=sc.nextInt();

b=sc.nextInt();

c=sc.nextInt();

if(a<b && a<c)

{

System.out.println("a is minimun");

}

else if(b<c && b>c)

{

System.out.println ("b is minimun");

}

else if(c>a && c<b)

{

System.out.println("c is minimun");

}

else if(a==b && a<c)

{

System.out.println ("a&b equal & minimun");

}

else if(a==c && a<b)

{

System.out.println("a&c equal & minimun");

}

else if(c==b && c<a)

{

System.out.println ("c&b equal & minimun");

}

else

{

System.out.println("all are equal");

}

break;

case 3:System.out.println("enter a,b,c ");

a=sc.nextInt();

b=sc.nextInt();

c=sc.nextInt();

if (a>b){

if(a>c){

System.out.println(a+ "a is max");

}

else{

System.out.println(c+ "c is max");

}

}

else{

if(b>c){

System.out.println(b+ "b is max");

}

else{

System.out.println(c+ "a is max");

}

}

break;

case 4:

int m1,m2,m3;

double total, per;

System.out.println("enter mark m1,m2,m3:");

m1=sc.nextInt();

m2=sc.nextInt();

m3=sc.nextInt();

total=m1+m2+m3;

per= (total / 300) \* 100;

System.out.println("total mark="+total);

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

if(per>=70 && per<=100){

System.out.println("distination");

}

else if(per>=60 && per<70){

System.out.println("first class");

}

else if(per>=55 && per<60){

System.out.println("higher second class");

}

else if(per>=50 && per<55){

System.out.println("second class");

}

else if(per>=40 && per<50){

System.out.println("pass");

}

else{

System.out.println("ATKT fail");

}

break;

case 5:

double C,B,H;

System.out.println("enter b and h :");

B=sc.nextInt();

H=sc.nextInt();

C=0.5\*B\*H;

System.out.println("area of triangle="+C);

break;

case 6:

int age,weight,hb;

System.out.println("Enter age,height,hb :");

age=sc.nextInt();

weight=sc.nextInt();

hb=sc.nextInt();

if(age>=18){

if(weight>=50 && weight<=90){

if(hb>=12.5 && hb<=15){

System.out.println("You can blood donet");

}

else{

System.out.println("You can't blood donet");

}

}

else{

System.out.println("You can't blood donet");

}

}

else{

System.out.println("You can't blood donet");

}

break;

case 7:

int mscc,mhsc;

double cgpa;

System.out.println("Enter scc marks");

mscc=sc.nextInt();

System.out.println("Enter HSC marks");

mhsc=sc.nextInt();

System.out.println("Enter CGPA marks");

cgpa=sc.nextInt();

if(mscc<=500 || mhsc<=600 || cgpa<=10){

if(mscc>=350){

if(mhsc>=450){

if(cgpa>=7.5){

System.out.println("you are eligible");

}

else{

System.out.println("you are not eligible");

}

}

else{

System.out.println("you are not eligible");

}

}

else{

System.out.println("you are not eligible");

}

}

else{

System.out.println("you invalid marks");

}

break;

default:System.out.println("invalid choice");

}

}while(ch<=6);

}

}

5.

import java.util.\*;

class HelloWorld {

public static void main(String[] args) {

int ch,n;

//double uc=0,bc=128,tax, find;

Scanner sc=new Scanner(System.in);

do

{

System.out.println("1:even or odd\n 2:divisible by 17\n 3:divisible by 5 and 7\n 4:divisible by 5 or 7\n 5:leap year or not\n 6:positive or negative\n 7:calculate electricity bill\n 8:age\n 9:discount\n 10:pin");

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

ch=sc.nextInt();

switch(ch)

{

case 1: System.out.println("enter ");

n=sc.nextInt();

if (n%2==0){

System.out.println(n+ "is even");

}

else

{

System.out.println(n+ "is odd");

}

break;

case 2: System.out.println("enter n");

n=sc.nextInt();

if (n%17==0)

{

System.out.println(n+ "is divisible by 17");

}

else

{

System.out.println(n+ "is not divisible by 17");

}

break;

case 3: System.out.println("enter n");

n=sc.nextInt();

if(n%5==0 && n%7==0)

{

System.out.println(n+ "number is divisible by 5 and 7");

}

else

{

System.out.println(n+ "number is not divisible by 5 and 7");

}

break;

case 4: System.out.println("enter n");

n=sc.nextInt();

if(n%5==0 || n%7==0)

{

System.out.println(n+ "number is divisible by 5 or 7");

}

else

{

System.out.println(n+ "number is not divisible by 5 or 7");

}

break;

case 5: System.out.println("enter n");

int year=sc.nextInt();

if (year%4==0)

{

System.out.println(year+ "is leap year");

}

else

{

System.out.println(year+ "is not leap year");

}

break;

case 6: System.out.println("enter n");

n=sc.nextInt();

if(n>=0)

{

System.out.println(n+ " is positive");

}

else if(n<=0)

{

System.out.println(n+ " is negative");

}

else

{

System.out.println("Zero");

}

break;

case 7: System.out.println("enter unit");

int unit;

double uc=0,bc=128,tax, find;

unit=sc.nextInt();

tax=128+(uc\*1.17);

find=uc+tax+bc;

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

System.out.println("Bill="+find);

if(unit<=100){

uc=unit\*4.17;

}

else if(unit>=101&&unit<=300){

uc=unit\*10.29;

}

else if(unit>=301 && unit<500){

uc=unit\*14.55;

}

else if(unit>=501 && unit<1000){

uc=unit\*16.64;

}

else{

System.out.println("");

}

System.out.println("unit charge="+uc);

break;

case 8: System.out.println("enter age");

int age=sc.nextInt();

if (age >= 18)

{

System.out.println(age + "It is valid for voteing");

}

else

{

System.out.println(age+ "It is not valid for voteing");

}

break;

case 9: System.out.println("enter amt");

double disc,total,amt;

amt=sc.nextInt();;

if(amt<10000)

{

System.out.println("No discount");

}

else if(amt>=10000 && amt<20000)

{

disc=amt\*0.05;

total=amt-disc;

System.out.println("disc=" +disc + "\ntotal=" +total);

}

else if(amt>=20000 && amt<50000)

{

disc=amt\*0.07;

total=amt-disc;

System.out.println("disc=" +disc + "\ntotal=" +total);

}

else if(amt>=50000)

{

disc=amt\*0.10;

total=amt-disc;

System.out.println("disc" +disc + "\ntotal" +total);

}

break;

case 10: System.out.println("enter pin");

int pin=sc.nextInt();

if (pin == 1234)

{

System.out.println (pin + "It is valid");

}

else

{

System.out.println(pin + "It is not valid");

}

break;

default: System.out.println("invalid choice");break;

}

}

while(ch<=8);

}

}

6.

import java.util.\*;

class HelloWorld {

public static void main(String[] args) {

//double uc=0,bc=128,tax, find;

int ch,n,A;

//double uc=0,bc=128,tax, find;

Scanner sc=new Scanner (System.in);

do

{

System.out.println("1:first no is between second and third\n 2:min from 3 number\n 3:max from 3 number\n 4:ATKT\n 5:triangle\n 6:blood donation\n 7:apptitude exam");

//Console.WriteLine("5:Am &HM");

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

ch=sc.nextInt();

switch(ch)

{

case 1: System.out.println("enter a,b,c ");

int a=sc.nextInt();

int b=sc.nextInt();

int c=sc.nextInt();

if((a>b && a<c) || (a>c && a<b))

{

System.out.println(a+ "is between b and c" );

}

else

{

System.out.println(a+ "is not between b and c");

}

break;

case 2: System.out.println("enter a,b,c ");

a=sc.nextInt();

b=sc.nextInt();

c=sc.nextInt();

if(a<b && a<c)

{

System.out.println ("a is minimun");

}

else if(b<c && b>c)

{

System.out.println("b is minimun");

}

else if(c>a && c<b)

{

System.out.println ("c is minimun");

}

else if(a==b && a<c)

{

System.out.println ("a&b equal & minimun");

}

else if(a==c && a<b)

{

System.out.println ("a&c equal & minimun");

}

else if(c==b && c<a)

{

System.out.println ("c&b equal & minimun");

}

else

{

System.out.println ("all are equal");

}

break;

case 3: System.out.println("enter a,b,c ");

a=sc.nextInt();

b=sc.nextInt();

c=sc.nextInt();

if (a>b){

if(a>c){

System.out.println(a+ "a is max");

}

else{

System.out.println(c+ "c is max");

}

}

else{

if(b>c){

System.out.println(b+ "b is max");

}

else{

System.out.println(c+ "a is max");

}

}

break;

case 4:

int m1,m2,m3;

double total, per;

System.out.println("enter mark m1,m2,m3:");

m1=sc.nextInt();

m2=sc.nextInt();

m3=sc.nextInt();

total=m1+m2+m3;

per= (total / 300) \* 100;

System.out.println("total mark="+total);

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

if(per>=70 && per<=100){

System.out.println("distination");

}

else if(per>=60 && per<70){

System.out.println("first class");

}

else if(per>=55 && per<60){

System.out.println("higher second class");

}

else if(per>=50 && per<55){

System.out.println("second class");

}

else if(per>=40 && per<50){

System.out.println("pass");

}

else{

System.out.println("ATKT fail");

}

break;

case 5:

double C,B,H;

System.out.println("enter b and h :");

B=sc.nextInt();

H=sc.nextInt();

C=0.5\*B\*H;

System.out.println("area of triangle="+C);

break;

case 6:

int age,weight,hb;

System.out.println("Enter age,height,hb :");

age=sc.nextInt();

weight=sc.nextInt();

hb=sc.nextInt();

if(age>=18){

if(weight>=50 && weight<=90){

if(hb>=12.5 && hb<=15){

System.out.println("You can blood donet");

}

else{

System.out.println("You can't blood donet");

}

}

else{

System.out.println("You can't blood donet");

}

}

else{

System.out.println("You can't blood donet");

}

break;

case 7:

int mscc,mhsc;

double cgpa;

System.out.println("Enter scc marks");

mscc=sc.nextInt();

System.out.println("Enter HSC marks");

mhsc=sc.nextInt();

System.out.println("Enter CGPA marks");

cgpa=sc.nextInt();

if(mscc<=500 || mhsc<=600 || cgpa<=10){

if(mscc>=350){

if(mhsc>=450){

if(cgpa>=7.5){

System.out.println("you are eligible");

}

else{

System.out.println("you are not eligible");

}

}

else{

System.out.println("you are not eligible");

}

}

else{

System.out.println("you are not eligible");

}

}

else{

System.out.println("invalid marks");

}

break;

default: System.out.println("invalid choice");

}

}

while(ch<=7);

}

}

7.

import java.util.\*;

class HelloWorld {

public static void main(String[] args) {

int ch;

Scanner sc=new Scanner(System.in);

do{

System.out.println("1.max 2 number:\n2.loss or profit:\n3:quadrant\n4:Bank money ");

System.out.println("Enter your choice:");

ch=sc.nextInt();

switch(ch){

case 1:

int a,b;

System.out.println("enter a and b value:");

a=sc.nextInt();

b=sc.nextInt();

if(a>b)

{

System.out.println(a+" is max number");

}

else if(a<b)

{

System.out.println(b+" is max number");

}

else{

System.out.println("is equal");

}

break;

case 2:

double sp,cp,total,per;

System.out.println("Enter cp and sp :");

sp=sc.nextInt();

cp=sc.nextInt();

if(cp>sp){

total=cp-sp;

per=(total/cp)\*100;

System.out.println("Loss\n"+total +" per="+per);

}

else if(sp>cp){

total=sp-cp;

per=(total/cp)\*100;

System.out.println("Profit\n"+total+" per="+per);

}

else{

System.out.println("Not loss and profit");

}

break;

case 3:

int x,y;

System.out.println("enter x and y");

x=sc.nextInt();

y=sc.nextInt();

if(x>0 && y>0){

System.out.println("quad 1");

}

else if(x>0 && y<0){

System.out.println("quad 2");

}

else if(x>0 && y>0 ){

System.out.println("quad 3");

}

else if(x>0 && y<0 ){

System.out.println("quad 4");

}

else{

System.out.println("0");

}

break;

case 4:

double balance\_amt,withdrawal\_amt;

System.out.println("Enter balance amount:");

balance\_amt=sc.nextInt();

System.out.println("Enter withdrawal amount:");

withdrawal\_amt=sc.nextInt();

if(withdrawal\_amt>balance\_amt){

System.out.println("Insuffient balance");

}

else{

System.out.println("current balance="+(balance\_amt - withdrawal\_amt));

}

break;

default:

System.out.println("invalid");

}

}while(ch<=4);

}

}

8.

import java.util.Scanner;

public class Main {

public static void main(String[] args) {

Scanner scanner = new Scanner(System.in);

System.out.println("Enter a char ");

char ch = scanner.next().charAt(0);

int value = ch;

switch (ch) {

case '0': case '1': case '2': case '3': case '4':

case '5': case '6': case '7': case '8': case '9':

System.out.println("enter a digit.");

break;

case 'a': case 'b': case 'c': case 'd': case 'e': case 'f': case 'g': case 'h': case 'i': case 'j': case 'k': case 'l': case 'm':

case 'n': case 'o': case 'p': case 'q': case 'r': case 's': case 't': case 'u': case 'v': case 'w': case 'x': case 'y': case 'z':

System.out.println(" it is a lowercase ");

break;

case 'A': case 'B': case 'C': case 'D': case 'E': case 'F': case 'G': case 'H': case 'I': case 'J': case 'K': case 'L': case 'M':

case 'N': case 'O': case 'P': case 'Q': case 'R': case 'S': case 'T': case 'U': case 'V': case 'W': case 'X': case 'Y': case 'Z':

System.out.println("it is a uppercase ");

break;

default:

System.out.println("entered a special character.");

break;

}

}

}

9.

import java.util.\*;

public class Main{

public static void Main(String[] args)

{

int a,b;

Scanner sc=new Scanner(System.in);

System.out.println ("enter a and b:");

a = sc.nextInt();

b = sc.nextInt();

switch (a>b){

case true:

System.out.println("a is grater");

break;

case false:

System.out.println("b is grater");

break;

default: System.out.println("inavalid");

}

}

}

10.

import java.util.\*;

class Main {

public static void main(String[] args)

{

char ch;

Scanner sc=new Scanner (System.in); System.out.println("Enter character");

ch=sc.next().charAt(0);

switch(ch)

{

case 'a':case'A':

System.out.println( " Apple");

break;

case 'e': case'E':

System.out.println( " Elephant");

break;

case 'i': case 'I':

System.out.println( " Icecream");

break;

case 'o': case 'O':

System.out.println( " Orange");

break;

case 'u': case 'U':

System.out.println(" Umbrella");

break;

default: System.out.println( " invalid character its not vowel");

}

}

}

11.

import java.util.\*;

public class Main

{

public static void main(String[] args) {

Scanner sc = new Scanner(System.in);

System.out.println("Enter a date (format: DD MM YYYY):");

int day = sc.nextInt();

int month = sc.nextInt();

int year = sc.nextInt();

if(month>=1 && month<=12)

{

if(year>=1000 && year<=9999)

{

if (day >= 1 && day <= 31)

{

switch (month)

{

case 1:

case 3: case 5: case 7: case 8: case 10: case 12:

System.out.println(day+"-"+month+"-"+year+" Valid date.");

if(day==31 && month==12)

{

month=1;

day=1;

year++;

}

else if(day==31 )

{

month++;

day=1;

}

else

{

day++;

}

System.out.println("Next dat ="+day+"-"+month+"-"+year+" Valid date.");

break;

case 4: case 6: case 9: case 11:

if (day <= 30)

{

System.out.println(day+"-"+month+"-"+year+" Valid date.");

}

else

{

System.out.println(day+"-"+month+"-"+year+" InValid date.");

}

break;

case 2:

if ((year % 4 == 0 && day <= 29) )

{

System.out.println(day+"-"+month+"-"+year+" Valid date.");

}

else if(day <= 28)

{

System.out.println(day+"-"+month+"-"+year+" Valid date.");

}

else

{

System.out.println(day+"-"+month+"-"+year+" InValid date.");

}

break;

}

}

else

{

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

}

}

else

{

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

}

}

else

{

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

}

}

}

12.

import java.util.\*;

public class SwitchExample

{

public static void Main(string[] args)

{

Scanner sc=new Scanner(System.in);

System.out.println("Enter a number:");

int num = sc.nextInt();

switch (num)

{

case 10: System.out.println("It is 10"); break;

case 20: System.out.println("It is 20"); break;

case 30: System.out.println("It is 30"); break;

default: System.out.println("Not 10, 20 or 30");

}

}

}