**Switch**

**1.Week**

using System;

public class HelloWorld

{

public static void Main(string[] args)

{

int dayno;

string daytype="",day="";

Console.WriteLine ("Enter number");

dayno=Convert.ToInt32(Console.ReadLine());

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="Thuresday";break;

case 5: daytype="weekday" ;

day="Friday";break;

case 6: daytype="weekend" ;

day="Satuerday";break;

case 7: daytype="weekend" ;

day="Sunday

default: day="Invalid input"; break;

}

Console.WriteLine(day+ "is" +daytype);

}

}

**2.**

using System;

public class HelloWorld

{

public static void Main(string[] args)

{

int n;

Console.WriteLine ("Enter number");

n=Convert.ToInt32(Console.ReadLine());

switch (n)

{

case 1: Console.WriteLine ("It is 10"); break;

case 2: Console.WriteLine ("It is 20"); break;

case 3: Console.WriteLine ("It is 30"); break;

default: Console.WriteLine("Invalid input"); break;

}

}

}

using System;

public class HelloWorld

{

public static void Main(string[] args)

{

int a,b,ch;

Console.WriteLine("Enter value of a & b");

a=Convert.ToInt32(Console.ReadLine());

b=Convert.ToInt32(Console.ReadLine());

do

{

Console.WriteLine("1:Addition of 2 number\n 2:Swap of 2 number\n 3:Max from 2 number\n 4:Min from 2 number");

Console.WriteLine("5:exit");

Console.WriteLine("Enter your choice");

ch=Convert.ToInt32(Console.ReadLine());

switch(ch)

{

case 1:Console.WriteLine("add=" +(a+b));break;

case 2:

a=a+b;

b=a-b;

a=a-b;

Console.WriteLine("a=" +a + "b=" +b);break;

case 3:

if(a>b)

{

Console.WriteLine(a+"is max");

}

else if(b>a)

{

Console.WriteLine(b+"is max");

}

else

{

Console.WriteLine("equal");

}

break;

case 4:

if(a<b)

{

Console.WriteLine(a+"is min");

}

else if(b<a)

{

Console.WriteLine(b+"is min");

}

else

{

Console.WriteLine("equal");

}

break;

case 5:Console.WriteLine("exit");break;

default:Console.WriteLine("invalid choice");break;

}

}while(ch<=5);

}

}

**3.Program to using switch**

using System;

public class HelloWorld

{

public static void Main(string[] args)

{

int ch;

double r,A,b;

do

{

Console.WriteLine("1:area of circle\n 2:Area of triangle\n 3:Area of rectangle\n 4:kinetic energy\n 6:Potential energy\n 7:Surface area");

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

Console.WriteLine("Enter your choice");

ch=Convert.ToInt32(Console.ReadLine());

switch(ch)

{

case 1:Console.WriteLine("enter r");

r=Convert.ToInt32(Console.ReadLine());

A=3.14\*r\*r;

Console.WriteLine("Area of circle=" +A);break;

case 2:Console.WriteLine("enter b & h");

b=Convert.ToInt32(Console.ReadLine());

double h=Convert.ToDouble(Console.ReadLine());

A=0.5\*b\*h;

Console.WriteLine("Area of triangle=" +A);break;

case 3:Console.WriteLine("enter b & l");

b=Convert.ToInt32(Console.ReadLine());

double l=Convert.ToDouble(Console.ReadLine());

A=l\*b;

Console.WriteLine("Area of rectangle=" +A);break;

case 4:Console.WriteLine("enter m & v");

double m=Convert.ToDouble(Console.ReadLine());

double v=Convert.ToDouble(Console.ReadLine());

A=0.5\*m\*v;

Console.WriteLine("kinetic energy=" +A);break;

case 5:Console.WriteLine("enter a & b");

double a=Convert.ToDouble(Console.ReadLine());

b=Convert.ToInt32(Console.ReadLine());

double am=(a+b)/2;

Console.WriteLine("AM=" +am);break;

case 6:Console.WriteLine("enter m & g & h");

m=Convert.ToInt32(Console.ReadLine());

int g=Convert.ToInt32(Console.ReadLine());

h=Convert.ToInt32(Console.ReadLine());

A=m\*g\*h;

Console.WriteLine("potential energy=" +A);break;

case 7:Console.WriteLine("enter r & h");

r=Convert.ToDouble(Console.ReadLine());

h=Convert.ToDouble(Console.ReadLine());

A=(2\*3.14\*r\*r)+(2\*3.14\*r\*h);

Console.WriteLine("surface area=" +A);break;

default:Console.WriteLine("invalid choice");break;

}

}while(ch<=7);

}

}

**4**. **Program to using switch**

using System

public class HelloWorld

{

public static void Main(string[] args)

{

int n;

Console.WriteLine("Enter number ");

n=Convert.ToInt32(Console.ReadLine());

switch(n)

{

case 10:Console.WriteLine("It is 10");break;

case 20:Console.WriteLine("It is 20");break;

case 30:Console.WriteLine("It is 30");break;

default:Console.WriteLine("not 10,20 or 30");break;

}

}

}

**5**. **Program to using switch**

using System;

public class HelloWorld

{

public static void Main(string[] args)

{

int ch,n;

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

do

{

Console.WriteLine("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");

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

Console.WriteLine("Enter your choice");

ch=Convert.ToInt32(Console.ReadLine());

switch(ch)

{

case 1:Console.WriteLine("enter ");

n=Convert.ToInt32(Console.ReadLine());

if (n%2==0){

Console.WriteLine(n+ "is even");

}

else

{

Console.WriteLine(n+ "is odd");

}

break;

case 2:Console.WriteLine("enter n");

n=Convert.ToInt32(Console.ReadLine());

if (n%17==0)

{

Console.WriteLine(n+ "is divisible by 17");

}

else

{

Console.WriteLine(n+ "is not divisible by 17");

}

break;

case 3:Console.WriteLine("enter n");

n=Convert.ToInt32(Console.ReadLine());

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

{

Console.WriteLine(n+ "number is divisible by 5 and 7");

}

else

{

Console.WriteLine(n+ "number is not divisible by 5 and 7");

}

break;

case 4:Console.WriteLine("enter n");

n=Convert.ToInt32(Console.ReadLine());

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

{

Console.WriteLine(n+ "number is divisible by 5 or 7");

}

else

{

Console.WriteLine(n+ "number is not divisible by 5 or 7");

}

break;

case 5:Console.WriteLine("enter n");

int year=Convert.ToInt32(Console.ReadLine());

if (year%4==0)

{

Console.WriteLine(year+ "is leap year");

}

else

{

Console.WriteLine(year+ "is not leap year");

}

break;

case 6:Console.WriteLine("enter n");

n=Convert.ToInt32(Console.ReadLine());

if(n>=0)

{

Console.WriteLine(n+ " is positive");

}

else if(n<=0)

{

Console.WriteLine(n+ " is negative");

}

else

{

Console.WriteLine("Zero");

}

break;

case 7:Console.WriteLine("enter unit");

int unit;

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

unit=Convert.ToInt32(Console.ReadLine());

//uc=Convert.ToInt32(Console.ReadLine());

//bc=Convert.ToInt32(Console.ReadLine());

tax=128+(uc\*1.17);

find=uc+tax+bc;

Console.WriteLine("tax=" +tax);

Console.WriteLine("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{

Console.WriteLine("");

}

Console.WriteLine("unit charge="+uc);

break;

case 8:Console.WriteLine("enter age");

int age=Convert.ToInt32(Console.ReadLine());

if (age >= 18)

{

Console.WriteLine (age + "It is valid for voteing");

}

else

{

Console.WriteLine(age+ "It is not valid for voteing");

}

break;

case 9:Console.WriteLine("enter amt");

double disc,total,amt;

amt=Convert.ToDouble(Console.ReadLine());

if(amt<10000)

{

Console.WriteLine("No discount");

}

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

{

disc=amt\*0.05;

total=amt-disc;

Console.WriteLine("disc=" +disc + "\ntotal=" +total);

}

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

{

disc=amt\*0.07;

total=amt-disc;

Console.WriteLine("disc=" +disc + "\ntotal=" +total);

}

else if(amt>=50000)

{

disc=amt\*0.10;

total=amt-disc;

Console.WriteLine("disc" +disc + "\ntotal" +total);

}

break;

case 10:Console.WriteLine("enter pin");

int pin=Convert.ToInt32(Console.ReadLine());

if (pin == 1234)

{

Console.WriteLine (pin + "It is valid");

}

else

{

Console.WriteLine(pin + "It is not valid");

}

break;

default:Console.WriteLine("invalid choice");break;

}

}

while(ch<=8);

}

}

**6**. **Program to using switch**

using System;

public class HelloWorld

{

public static void Main(string[] args)

{

int ch,n,A;

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

do

{

Console.WriteLine("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");

Console.WriteLine("Enter your choice");

ch=Convert.ToInt32(Console.ReadLine());

switch(ch)

{

case 1:Console.WriteLine("enter a,b,c ");

int a=Convert.ToInt32(Console.ReadLine());

int b=Convert.ToInt32(Console.ReadLine());

int c=Convert.ToInt32(Console.ReadLine());

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

{

Console.WriteLine(a+ "is between b and c" );

}

else

{

Console.WriteLine(a+ "is not between b and c");

}

break;

case 2:Console.WriteLine("enter a,b,c ");

a=Convert.ToInt32(Console.ReadLine());

b=Convert.ToInt32(Console.ReadLine());

c=Convert.ToInt32(Console.ReadLine());

if(a<b && a<c)

{

Console.WriteLine ("a is minimun");

}

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

{

Console.WriteLine ("b is minimun");

}

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

{

Console.WriteLine ("c is minimun");

}

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

{

Console.WriteLine ("a&b equal & minimun");

}

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

{

Console.WriteLine ("a&c equal & minimun");

}

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

{

Console.WriteLine ("c&b equal & minimun");

}

else

{

Console.WriteLine ("all are equal");

}

break;

case 3:Console.WriteLine("enter a,b,c ");

a=Convert.ToInt32(Console.ReadLine());

b=Convert.ToInt32(Console.ReadLine());

c=Convert.ToInt32(Console.ReadLine());

if (a>b){

if(a>c){

Console.WriteLine(a+ "a is max");

}

else{

Console.WriteLine(c+ "c is max");

}

}

else{

if(b>c){

Console.WriteLine(b+ "b is max");

}

else{

Console.WriteLine(c+ "a is max");

}

}

break;

case 4:

int m1,m2,m3;

double total, per;

Console.WriteLine("enter mark m1,m2,m3:");

m1=Convert.ToInt32(Console.ReadLine());

m2=Convert.ToInt32(Console.ReadLine());

m3=Convert.ToInt32(Console.ReadLine());

total=m1+m2+m3;

per= (total / 300) \* 100;

Console.WriteLine("total mark="+total);

Console.WriteLine("per="+per);

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

Console.WriteLine("distination");

}

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

Console.WriteLine("first class");

}

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

Console.WriteLine("higher second class");

}

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

Console.WriteLine("second class");

}

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

Console.WriteLine("pass");

}

else{

Console.WriteLine("ATKT fail");

}

break;

case 5:

double C,B,H;

Console.WriteLine("enter b and h :");

B=Convert.ToDouble(Console.ReadLine());

H=Convert.ToDouble(Console.ReadLine());

C=0.5\*B\*H;

Console.WriteLine("area of triangle="+C);

break;

case 6:

int age,weight,hb;

Console.WriteLine("Enter age,height,hb :");

age=Convert.ToInt32(Console.ReadLine());

weight=Convert.ToInt32(Console.ReadLine());

hb=Convert.ToInt32(Console.ReadLine());

if(age>=18){

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

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

Console.WriteLine("You can blood donet");

}

else{

Console.WriteLine("You can't blood donet");

}

}

else{

Console.WriteLine("You can't blood donet");

}

}

else{

Console.WriteLine("You can't blood donet");

}

break;

case 7:

int mscc,mhsc;

double cgpa;

Console.WriteLine("Enter scc marks");

mscc=Convert.ToInt32(Console.ReadLine());

Console.WriteLine("Enter HSC marks");

mhsc=Convert.ToInt32(Console.ReadLine());

Console.WriteLine("Enter CGPA marks");

cgpa=Convert.ToDouble(Console.ReadLine());

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

if(mscc>=350){

if(mhsc>=450){

if(cgpa>=7.5){

Console.WriteLine("you are eligible");

}

else{

Console.WriteLine("you are not eligible");

}

}

else{

Console.WriteLine("you are not eligible");

}

}

else{

Console.WriteLine("you are not eligible");

}

}

else{

Console.WriteLine("invalid marks");

}

break;

default:Console.WriteLine("invalid choice");break;

}

}

while(ch<=7);

}

. }

**7**. **Program to using switch**

using System;

public class HelloWorld

{

public static void Main(string[] args)

{

int ch;

do{

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

Console.WriteLine("Enter your choice:");

ch=Convert.ToInt32(Console.ReadLine());

switch(ch){

case 1:

int a,b;

Console.WriteLine("enter a and b value:");

a=Convert.ToInt32(Console.ReadLine());

b=Convert.ToInt32(Console.ReadLine());

if(a>b)

{

Console.WriteLine(a+" is max number");

}

else if(a<b)

{

Console.WriteLine(b+" is max number");

}

else{

Console.WriteLine("is equal");

}

break;

case 2:

double sp,cp,total,per;

Console.WriteLine("Enter cp and sp :");

sp=Convert.ToDouble(Console.ReadLine());

cp=Convert.ToDouble(Console.ReadLine());

if(cp>sp){

total=cp-sp;

per=(total/cp)\*100;

Console.WriteLine("Loss\n"+total +" per="+per);

}

else if(sp>cp){

total=sp-cp;

per=(total/cp)\*100;

Console.WriteLine("Profit\n"+total+" per="+per);

}

else{

Console.WriteLine("Not loss and profit");

}

break;

case 3:

int x,y;

Console.WriteLine("enter x and y");

x=Convert.ToInt32(Console.ReadLine());

y=Convert.ToInt32(Console.ReadLine());

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

Console.WriteLine("quad 1");

}

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

Console.WriteLine("quad 2");

}

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

Console.WriteLine("quad 3");

}

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

Console.WriteLine("quad 4");

}

else{

Console.WriteLine("0");

}

break;

case 4:

double balance\_amt,withdrawal\_amt;

Console.WriteLine("Enter balance amount:");

balance\_amt=Convert.ToDouble(Console.ReadLine());

Console.WriteLine("Enter withdrawal amount:");

withdrawal\_amt=Convert.ToDouble(Console.ReadLine());

if(withdrawal\_amt>balance\_amt){

Console.WriteLine("Insuffient balance");

}

else{

Console.WriteLine("current balance="+(balance\_amt - withdrawal\_amt));

}

break;

default:

Console.WriteLine("invalid");

break;

}

}while(ch<=4);

}

}

**8.**

using System;

public class HelloWorld

{

public static void Main(string[] args)

{

int a,b,c,d,e,ch;

do{

Console.WriteLine("1.Addition:\n2.Substraction:\n3.Multiplication\n4:Division ");

Console.WriteLine("Enter your choice:");

ch=Convert.ToInt32(Console.ReadLine());

a=Convert.ToInt32(Console.ReadLine());

b=Convert.ToInt32(Console.ReadLine());

c=Convert.ToInt32(Console.ReadLine());

d=Convert.ToInt32(Console.ReadLine());

switch(ch){

case 1:

Console.WriteLine("Enter number:");

e=(a\*d)+(c\*b)/b\*d;

Console.WriteLine("e" +e);

break;

default:

Console.WriteLine("invalid");

break;

}

}while(ch<=4);

}

}

9. Next date

using System;

class HelloWorld {

static void Main() {

int d, m, y;

Console.WriteLine("Enter d, m, and y: ");

d = Convert.ToInt32(Console.ReadLine());

m = Convert.ToInt32(Console.ReadLine());

y = Convert.ToInt32(Console.ReadLine());

if (y >= 1000 && y <= 9999) {

if (m >= 1 && m <= 12) {

if (d >= 1 && d <= 31) {

switch (m) {

case 1: case 3: case 5: case 7: case 8: case 10: case 12:

Console.WriteLine(d+"-"+m+"-"+y+" Valid date.");

if(d==31 && m==12)

{

m=1;

d=1;

y++;

}

else if(d==31 )

{

m++;

d=1;

}

else

{

d++;

}

Console.WriteLine("Next dat ="+d+"-"+m+"-"+y+" Valid date.");

break;

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

if (d <= 30) {

Console.WriteLine("Valid");

} else {

Console.WriteLine("Invalid");

}

if(d==30 && m==12)

{

m=1;

d=1;

}

else if(d==30 )

{

m++;

d=1;

}

else

{

d++;

}

Console.WriteLine("Next dat ="+d+"-"+m+"-"+y+" Valid date.");

break;

case 2:

if (y % 4 == 0) {

if (d <= 29) {

Console.WriteLine("Valid");

} else {

Console.WriteLine("Invalid");

}

} else {

if (d <= 28) {

Console.WriteLine("Valid");

} else {

Console.WriteLine("Invalid");

}

}

break;

default:

Console.WriteLine("Invalid");

break;

}

} else {

Console.WriteLine("Valid year, month, but not day");

}

} else {

Console.WriteLine("Year valid but month invalid");

}

} else {

Console.WriteLine("Invalid year");

}

}

}

10)prev day

using System;

class HelloWorld {

static void Main() {

int d, m, y;

Console.WriteLine("Enter d, m, and y: ");

d = Convert.ToInt32(Console.ReadLine());

m = Convert.ToInt32(Console.ReadLine());

y = Convert.ToInt32(Console.ReadLine());

if (y >= 1000 && y <= 9999) {

if (m >= 1 && m <= 12) {

if (d >= 1 && d <= 31) {

switch (m) {

case 1: case 3: case 5: case 7: case 8: case 10: case 12:

Console.WriteLine(d+"-"+m+"-"+y+" Valid date.");

if(d==31 && m==12)

{

m=1;

d=1;

y--;

}

else if(d==31 )

{

m--;

d=1;

}

else

{

d--;

}

Console.WriteLine("prev dat ="+d+"-"+m+"-"+y+" Valid date.");

break;

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

if (d <= 30) {

Console.WriteLine("Valid");

} else {

Console.WriteLine("Invalid");

}

if(d==30 && m==12)

{

m=1;

d=1;

}

else if(d==30 )

{

m--;

d=1;

}

else

{

d--;

}

Console.WriteLine("prev dat ="+d+"-"+m+"-"+y+" Valid date.");

break;

case 2:

if (y % 4 == 0) {

if (d <= 29) {

Console.WriteLine("Valid");

} else {

Console.WriteLine("Invalid");

}

} else {

if (d <= 28) {

Console.WriteLine("Valid");

} else {

Console.WriteLine("Invalid");

}

}

break;

default:

Console.WriteLine("Invalid");

break;

}

} else {

Console.WriteLine("Valid year, month, but not day");

}

} else {

Console.WriteLine("Year valid but month invalid");

}

} else {

Console.WriteLine("Invalid year");

}

}

}

**10.Write a program to check whether the given input is digit or lowercase character or uppercase character or a special character using Switch case?using System;**

public class HelloWorld

{

public static void Main(string[] args)

{

int ch;

//printf("Enter a character: ");

//scanf("%c", &input);

Console.WriteLine("Enter character:");

ch=Convert.ToInt32(Console.ReadLine());

switch (ch)

{

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

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

Console.WriteLine("The character is a digit.\n" +ch);

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':

Console.WriteLine("The character is an uppercase letter.\n" +ch);

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':

Console.WriteLine("The character is a lowercase letter.\n" +ch);

break;

default:

Console.WriteLine("The character is a special character.\n" +ch);

break;

}

}

}

**11.Check it is vowel or not using switch**

using System;

public class HelloWorld

{

public static void Main(string[] args)

{

int ch;

Console.WriteLine("Enter character:");

ch=Convert.ToChar(Console.ReadLine());

switch (ch)

{

case 'a': case 'A':

Console.WriteLine( "Apple");

break;

case 'e': case 'E':

Console.WriteLine("education");

break;

case 'i': case 'I':

Console.WriteLine("ink");

break;

case 'o': case 'o':

Console.WriteLine("Orange");

break;

case 'u': case 'U':

Console.WriteLine("Umberela");

break;

default: Console.WriteLine("invalid character its not vowel");

break;

}

}

}

**12.Write a program to display greater number among 2**

using System;

public class HelloWorld

{

public static void Main(string[] args)

{

int a,b;

Console.WriteLine("Enter character:");

a=Convert.ToInt32(Console.ReadLine());

b=Convert.ToInt32(Console.ReadLine());

switch (a>b)

{

case true:

Console.WriteLine("a is greater");

break;

case false:

Console.WriteLine("b is greater");

break;

default: Console.WriteLine("invalid");

break;

}

}

}