**Switch Case Problems**

**Assignment – 9**

**1.** **#include<stdio.h>**

**int main()**

**{**

**int month;**

**printf("ENTER MONTH TO EKNOW THE DATES:");**

**scanf("%d",&month);**

**switch(month)**

**{**

**case 1:printf("DAYS=31");**

**break;**

**case 2:printf("DAYS=28/29");**

**break;**

**case 3:printf("DAYS=31");**

**break;**

**case 4:printf("DAYS=30");**

**break;**

**case 5:printf("DAYS=31");**

**break;**

**case 6:printf("DAYS=30");**

**break;**

**case 7:printf("DAYS=31");**

**break;**

**case 8:printf("DAYS=31");**

**break;**

**case 9:printf("DAYS=30");**

**break;**

**case 10:printf("DAYS=31");**

**break;**

**case 11:printf("DAYS=30");**

**break;**

**case 12:printf("DAYS=31");**

**break;**

**default :printf("ENTER VALID MONTH");**

**}**

**return 0;**

**}**

**2.** **#include<stdio.h>**

**int main()**

**{**

**int add,sub,mul,div,n,a,b,c=0;**

**printf("1.ADDITION.\n");**

**printf("2.SUBSTRATION.\n");**

**printf("3.MULTIPLICATION.\n");**

**printf("4.DIVISION.\n");**

**printf("5.EXIT.\n");**

**printf("\n\n\n");**

**printf("ENTER YOUR CHOICE:-");**

**scanf("%d",&n);**

**switch(n)**

**{**

**case 1 :**

**printf("ENTER FIRST NO:");**

**scanf("%d",&a);**

**printf("ENTER SECOND NO:");**

**scanf("%d",&b);**

**c=a+b;**

**printf("SUM OF TWO NO IS:%d",c);**

**break;**

**case 2 :**

**printf("ENTER FIRST NO:");**

**scanf("%d",&a);**

**printf("ENTER SECOND NO:");**

**scanf("%d",&b);**

**c=a-b;**

**printf("SUBTRACTION OF TWO NO IS:%d",c);**

**break;**

**case 3 :**

**printf("ENTER FIRST NO:");**

**scanf("%d",&a);**

**printf("ENTER SECOND NO:");**

**scanf("%d",&b);**

**c=a\*b;**

**printf("MULTIPLICATION OF TWO NO IS:%d",c);**

**break;**

**case 4 :**

**printf("ENTER FIRST NO:");**

**scanf("%d",&a);**

**printf("ENTER SECOND NO:");**

**scanf("%d",&b);**

**c=a/b;**

**printf("DIVISION OF TWO NO IS:%d",c);**

**break;**

**case 5 :**

**exit(0);**

**default :printf("INVALID ENTRY ");**

**}**

**return 0;**

**}**

**3.** **#include<stdio.h>**

**int main()**

**{**

**int a;**

**printf("ENTER THE WEEK NO 1-7:");**

**scanf("%d",&a);**

**switch(a)**

**{**

**case 1:**

**printf("MONDAY");**

**break;**

**case 2:**

**printf("TUESDAY");**

**break;**

**case 3:**

**printf("WEDNESDAY");**

**break;**

**case 4:**

**printf("THURSDAY");**

**break;**

**case 5:**

**printf("FRIDAY");**

**break;**

**case 6:**

**printf("SATURDAY");**

**break;**

**case 7:**

**printf("SUNDAY");**

**break;**

**default :printf("inavlid");**

**}**

**return 0;**

**}**

**4.** **#include<stdio.h>**

**int main()**

**{**

**int a,b,c,d;**

**printf("1.ISOSCELES TRAINGLE.\n");**

**printf("2.RIGHTHANDED TRIANGLE.\n");**

**printf("3.EQUITORAIAL TRAINGLR.\n");**

**printf("4.EXIT.\n");**

**printf("\n\n\n\n");**

**printf("ENTER YOUR CHOICE:");**

**scanf("%d",&d);**

**switch(d)**

**{**

**case 1:**

**printf("ENTER FIRST VALUE FOR SIDE 1:=");**

**scanf("%d",&a);**

**printf("ENTER SECOND VALUE FOR SIDE 2:=");**

**scanf("%d",&b);**

**printf("ENTER THIRD VALUE FOR SIDE 3:=");**

**scanf("%d",&c);**

**if(a==b || b==c || c==a)**

**printf("ISOSCELES TRIANGLE");**

**else**

**printf("NOT ISOSCELES TRIANGLE");**

**break;**

**case 2:**

**printf("ENTER FIRST VALUE FOR SIDE 1:=");**

**scanf("%d",&a);**

**printf("ENTER SECOND VALUE FOR SIDE 2:=");**

**scanf("%d",&b);**

**printf("ENTER THIRD VALUE FOR SIDE 3:=");**

**scanf("%d",&c);**

**if(a\*a+b\*b==c\*c || b\*b+c\*c==a\*a || a\*a+c\*c==b\*b)**

**printf("RIGHTHANDED TRIANGLE");**

**else**

**printf("NOT RIGHTHANDED TRIANGLE");**

**break;**

**case 3:**

**printf("ENTER FIRST VALUE FOR SIDE 1:=");**

**scanf("%d",&a);**

**printf("ENTER SECOND VALUE FOR SIDE 2:=");**

**scanf("%d",&b);**

**printf("ENTER THIRD VALUE FOR SIDE 3:=");**

**scanf("%d",&c);**

**if(a==b && c==a)**

**printf("EQUILATERAL TRIANGLE");**

**else**

**printf("NOT EQUILATERAL TRIANGLE");**

**break;**

**case 4:**

**exit(0);**

**}**

**return 0;**

**}**

**5.#include<stdio.h>**

**int main()**

**{**

**int a;**

**printf("ENTER NO UPTO (1-3)=");**

**scanf("%d",&a);**

**switch(a)**

**{**

**case 1:**

**printf("good");**

**break;**

**case 2:**

**printf("better");**

**break;**

**case 3:**

**printf("best");**

**break;**

**default :printf("Invalid");**

**}**

**return 0;**

**}**

**6.** **#include<stdio.h>**

**int main()**

**{**

**int year,y;**

**printf("Enter the Year :\n");**

**scanf("%d",&year);**

**y = year % 400 == 0 || year % 100 == 0 || year % 4 == 0;**

**switch (y)**

**{**

**case 1:**

**printf("\n%d is the leap year.\n", year);**

**break;**

**case 0:**

**printf("\n%d is not the leap year.\n", year);**

**break;**

**default:**

**printf("\n%d is not the leap year.\n", year);**

**}**

**return 0;**

**}**

**7.** **#include<stdio.h>**

**int main()**

**{ int a;**

**float b,c,d;**

**printf("1.ELECTRIC BILL UPTO 50 UNITS:\n");**

**printf("2.ELECTRIC BILL UPTO 100 UNITS:\n");**

**printf("3.ELECTRIC BILL UPTO 150 UNITS:\n");**

**printf("4.ELECTRIC BILL ABOVE 250 UNITS:\n");**

**printf("\n\n\n\n\n");**

**printf("ENTER YOUR CHOICE");**

**scanf("%d",&a);**

**switch(a)**

**{**

**case 1:**

**printf("ENTER YOUR UNIT:");**

**scanf("%f",&b);**

**if(b<=50)**

**c=b\*0.50;**

**d=c+0.20;**

**printf("AS PER 0.50/Units Cost + 20 percent additional charge Rs%f/-",d);**

**break;**

**case 2:**

**printf("ENTER YOUR UNIT:");**

**scanf("%f",&b);**

**if(b>=50 && b<=100)**

**c=b\*0.75;**

**d=c+0.20;**

**printf("AS PER 0.75/Units Cost + 20 percent additional charge Rs%f/-",d);**

**break;**

**case 3:**

**printf("ENTER YOUR UNIT:");**

**scanf("%f",&b);**

**if(b>=100 && b<=150)**

**c=b\*1.20;**

**d=c+0.20;**

**printf("AS PER 1.20/Units Cost + 20 percent additional charge Rs%f/-",d);**

**break;**

**case 4:**

**printf("ENTER YOUR UNIT:");**

**scanf("%f",&b);**

**if(b>=150 && b>=250)**

**c=b\*1.50;**

**d=c+0.20;**

**printf("AS PER 1.50/Units Cost + 20 percent additional charge Rs%f/-",d);**

**break;**

**}**

**return 0;**

**}**

**9.** **#include<stdio.h>**

**int main()**

**{ int a=1,b;**

**switch (a)**

**{**

**case 1:**

**printf("ENTER A NO=");**

**scanf("%d",&b);**

**if(b%2==0)**

**printf("NO NEXT TO EVEN NO=%d",b+1);**

**else**

**printf("ODD NO=%d",b);**

**}**

**return 0;**

**}**

**10.** **#include <stdio.h>**

**int main()**

**{**

**float a, b, c;**

**float root1, root2, imaginary;**

**float discriminant;**

**printf("Enter values of a, b, c of quadratic equation (aX^2 + bX + c): ");**

**scanf("%f%f%f", &a, &b, &c);**

**discriminant = (b \* b) - (4 \* a \* c);**

**switch(discriminant > 0)**

**{**

**case 1:**

**root1 = (-b + sqrt(discriminant)) / (2 \* a);**

**root2 = (-b - sqrt(discriminant)) / (2 \* a);**

**printf("Two distinct and real roots exists: %.2f and %.2f",**

**root1, root2);**

**break;**

**case 0:**

**switch(discriminant < 0)**

**{**

**case 1:**

**root1 = root2 = -b / (2 \* a);**

**imaginary = sqrt(-discriminant) / (2 \* a);**

**printf("Two distinct complex roots exists: %.2f + i%.2f and %.2f - i%.2f",**

**root1, imaginary, root2, imaginary);**

**break;**

**case 0:**

**root1 = root2 = -b / (2 \* a);**

**printf("Two equal and real roots exists: %.2f and %.2f", root1, root2);**

**break;**

**}**

**}**

**return 0;**

**}**