1.Write a program which takes the month number as an input and display

number of days in that month.

#include<stdio.h>

int main()

{

  int m,d;

  printf("Enter month's number= ");

  scanf("%d",&m);

  switch(m)

  {

    case 1: printf("31 Days");

             break;

    case 2: printf("28 Days");

             break;

    case 3: printf("31 Days");

             break;

    case 4: printf("30 Days");

             break;

    case 5: printf("31 Days");

             break;

    case 6: printf("30 Days");

             break;

    case 7: printf("31 Days");

             break;

    case 8: printf("31 Days");

             break;

    case 9: printf("30 Days");

             break;

    case 10: printf("31 Days");

             break;

    case 11: printf("30 Days");

             break;

    case 12: printf("31 Days");

             break;

    default:

            printf("Invalid choice");

            break;

  }

}

2. Write a menu driven program with the following options:

a. Addition b. Substraction c. Multiplication d. Division e. Exit

#include<stdio.h>

#include<stdlib.h>

int main()

{

  int x,y,c;

  while(1){

    printf("1.Addition\n2.Substraction\n3.Division\n4.Multiplication\n5.Exit\nEnter your choice= ");

    scanf("%d",&c);

  switch(c)

  {

    case 1:   printf("Enter two number= ");

             scanf("%d%d",&x,&y);

             printf("Sum is %d\n",x+y);

             break;

    case 2:

             printf("Enter two number= ");

             scanf("%d%d",&x,&y);

             printf("Sub is %d\n",x-y);

             break;

    case 3:

             printf("Enter two number= ");

             scanf("%d%d",&x,&y);

             printf("Div is %d\n",x/y);

             break;

    case 4:

             printf("Enter two number= ");

             scanf("%d%d",&x,&y);

             printf("Mul is %d\n",x\*y);

             break;

    case 5:  printf("You are exit");

             break;

    default:

             printf("Invalid choice\n");

  }

    if(c==5)

      break;

  }

}

3. Write a program which takes the day number of a week and displays a

unique greeting message for the day.

#include<stdio.h>

#include<stdlib.h>

int main()

{

  int d;

    printf("Enter day number= ");

    scanf("%d",&d);

  switch(d)

  {

    case 1:   printf("Monday");

             break;

    case 2:

             printf("Tuesday");

             break;

    case 3:

             printf("Wednesday");

             break;

    case 4:

             printf("Thrusday");

    case 5:

             printf("Friday");

             break;

    case 6:  printf("Saturday");

             break;

    case 7:

             printf("Sunday");

             break;

    default:

             printf("Invalid choice\n");

  }

}

4. Write a menu driven program with the following options:

a. Check whether a given set of three numbers are lengths of an

isosceles triangle or not

b. Check whether a given set of three numbers are lengths of sides of

a right angled triangle or not

c. Check whether a given set of three numbers are equilateral triangle

or not

d. Exit

#include<stdio.h>

#include<stdlib.h>

int main()

{

  int a,b,c,d;

    printf("Enter sides of triangles= ");

    scanf("%d%d%d",&a,&b,&c);

    printf("1.Equilateral\n2.Right angled.\n3.Isosceles.\n4.exit\n Enter your choice=");

    scanf("%d",&d);

  switch(d)

  {

    case 1:   if(a==b==c)

              printf("Equilateral triangle");

    case 2:   if(a\*a==b\*b+c\*c || b\*b==c\*c+a\*a || c\*c==b\*b+a\*a)

              printf("Right angled triangle");

    case 3:   if(a==b!=c || b==c!=a || a==c!=b)

              printf("Isosceles triangle");

    case 4:   exit(0);

    default:

             printf("Invalid choice\n");

  }

}

5. Convert the following if-else-if construct into switch case:

if(var == 1)

System.out.println("good");

else if(var == 2)

System.out.println("better");

else if(var == 3)

System.out.println("best");

else

System.out.println("invalid");

#include<stdio.h>

#include<stdlib.h>

int main()

{

  int var;

  scanf("%d",&var);

 switch(var)

  {

   case 1:

    printf("good");

   case 2:

    printf("better");

   case 3:

    printf("best");

   default:

    printf("invalid");

  }

}

6. Program to check whether a year is a leap year or not. Using switch

Statement.

#include<stdio.h>

#include<stdlib.h>

int main()

{

   int year, remainder;

   printf("Enter Year: ");

   scanf("%d",&year);

   remainder=((year%4==0)&&((year%400==0)||(year%100!=0)));

   switch(remainder)

   {

   case 1:

     printf("Leap Year");

     break;

   case 0:

     printf("Not Leap Year");

     break;

   default:

     printf("Invalid");

     break;

   }

}

7. Program to take the value from the user as input electricity unit charges

and calculate total electricity bill according to the given condition . Using

the switch statement.

For the first 50 units Rs. 0.50/unit

For the next 100 units Rs. 0.75/unit

For the next 100 units Rs. 1.20/unit

For units above 250 Rs. 1.50/unit

An additional surcharge of 20% is added to the bill.

#include<stdio.h>

#include<stdlib.h>

int main()

{

   int unit;

   printf("Enter unit: ");

   scanf("%d",&unit);

   switch(unit)

   {

   case 0 ... 50: printf("Bill is %f",0.50\*unit);

                  break;

   case 51 ... 150: printf("Bill is %f",0.75\*unit);

                  break;

   case 151 ... 250: printf("Bill is %f",1.20\*unit);

                  break;

   default: printf("Bill is %f",1.50\*unit + 1.50\*20\*unit/100);

                  break;

   }

}

8. Program to convert a positive number into a negative number and negative

number into a positive number using a switch statement.

#include<stdio.h>

#include<stdlib.h>

int main()

{

   int num,n;

   printf("Enter num: ");

   scanf("%d",&num);

   if(num<0)

    n=0;

   else

    n=1;

   switch(n)

   {

   case 0:   printf("Num is %d",(-1\*num));

             break;

   case 1:   printf("Num is %d",(-1\*num));

             break;

   }

}