Assignment - 9

```
Write a program which takes the month number as an input
 and display number of days in that month.
 # include < stdio. h7
  int main ()
    int month'
    char month number (15);
    Printf ("Input month no; ");
     Booth ("xd", Smonth);
     Switch (manth)
      Case 1
       Case 3.
      Cares:
      Cone 7:
      Case 8:
      Caselo:
      Care 12:
            pointf ("month have 31 days . (n");
           breck ,
          Printf ("The 2nd month is a Rebordary and have 20 days. In");
          Printf (" The lasp year is the february month have 2.3 days. (n");
         break;
     Cosse4:
     Coyle 6'.
     Cose 9'
      Case !!
           Prints ("month have 30 days. \");
  defaut: breale;
        printf. ("invalid month number. In place try of ain. In");
        preil()
y 3
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De write a menu driven program with the following options.
                  6) Subtraction @ Multiplication @ Division @ Exit.
    @ Addition
     #include (stdio.h)
      int movin ()
        inta, b;
         char Charce;
         Printf ("Enter your charce In");
         Printf ("a. addition In b. Subtraction In c. multiplication Ind. Division In
                                                              e. exit);
         Sconf ("xc", &charce);
         Printf ("Enter 2 integer number | ");
         Sean F (MXd Xd", 49, 46);
         surteh (charce)
           (ase 'a': Printf("xd+/d=//d \n", a, b, (a+b));
                  break,
           Coneb: Printf ("xd=/,d=xd/n",a,b, (a-b));
                  break;
            Case'c'; Printf(" 1.dx "d = 1/d \n", a,b, (axb));
            ane'd': if(b1=0)
                     Printf ("xd/xd = xd/n", a,b, (a/b));
                     Printf ("Number Can 1 + be divided by o(n");
                   else
                    break;
             default: Printf ("you entered worrong charce \n");
                                        (Exit)
                     break;
            setven 0;
```

write a program which takes the day number of a week and displays a unique freeting message for the day. #medude < sAdio. h> int main() int day; Printf (" Enter day number:>>\m"); Sconf (" " d", 4 day); Switch (day) R Cose 1: Printf ("monday"); break; Print (" Tues day"); break; Printf (Wednesday "); break; printf("Sunday"); Printf ("Thus day"), break; f Ponth (" for day"); printf ("Invalid day number "); break; Printf ("In Have a good day"); grintf ("Saturday"); return O;

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( write a menu driver program with the following options:
 1 check whether a given set of three number are lengths of an isosceles
     triangle or not.
 1 check whether a given set of three numbers are lengths of sides
     of a right angled triangle or not.
  O cheek whether a given set of three numbers are equilateral
      triangle or not
 @ Exit.
      #include (stdio. h)
       intmain()
        int choice, a, b, c;
        Printf (" Enter your chaice \n");
       Printf ("1 to check isosceles triangle \n");
        Printf ("2 to check right angle triangle m");
       Printf ("3 to check equidateral triangle m");
        Sconf (" ", d", & choice);
        Printf ("Enter length of 3 side of triangle (n"); sconf ("XdXdXd", 4a, Rb, RC);
        switch (choice)
         case 1: if (a==b|| b==c|| c==a)
                Printf (" isosceles");
                   printf ("not an isosceles");
                  break;
         Case 2: if (a*a==b*b+c*c|| b*b==c*c+a*a||c*c==a*a+b*b)
                 Prints ("night, angle");
                   Prints ("not a sight triangle");
                  Break;
          case3: if (a == b) (+ (b == c)
                 Prints ("equilateral triangle");
                  se printf ("not a equilateral triangle");
                 break;
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default: Print ("invalid");
returno,
 Convert the
               following if-else-if construct into switch case:
      if (van ==1)
       Printf ( 'good ");
      else if (var == 2)
          Printf ("better"):
       ehe if (van ==3)
            Printf ("best");
        else
           Printf ("Invalid")
  #include < stdio. h)
   int main()
  7
      int X ;
      Printf ("1,2 or3 /n");
      Printf ("Enter your Charce \n"):
     Scanf ("/d", fn);
     Switch (X==1)
       CaseO:
             Printf ("good");
             break;
        Case O;
            Switch (n == 2)
           Cose!
               Printf ("better");
               break;
```

Case 4; break;

(5)

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Case O)
        Switch (n==3)
         Case 1
             Printf ("best");
            boreak;
         default,
           Printf ("invalid");
3 unite program to check whether a year is a leap year
    not . using switch statement.
  #include (stdio.h)
   int main ()
   1 int n=2002;
     Switch (x/, 100 ==0)
     Coreo: Switch (x7.400 ==0)
         case o; Printf ("leop year");
         break;
         cose 1; frints ("non legs year");
         break;
         break;
    Corel: Switch (x% 4==0)
         Core O; Switch Printf ("leap year");
         break;
                 Prints ("non leap year");
         break;
```

Program to take the value from the user as imput electricity unit charges and Calculate total electricity bill according to the siven Condition, using the switch statement. Per the first so units Rs. 0.50/unit. for the next 100 with Rs. 075/unit. For the next loo units Rs. 1.20/cmt. for the with abone 250 Rs. 1.50 point An additional Suncharge of 20% is added to the bill. #melude < stdio.h> int main () fint unit; float amt, total-amt, sur-charge; Brintf ("Enter total units Consumed:"); Scanf (" Y,d", 4 mit); if (wit <= 50) am+= mi++ 0,50; else if (unit <=150) amt = 25+ ((unit-50) +0.75); else if (mit <= 250) 6 ant =100 + ((unit- 180) * 1,20); else ant = 220 + ((unit-250) +1.56); Sur_charge = am + \$ 0,20; total_amt = amt + Sun-change; Brintf ("Electricity bill = RA. 1/2.28", total_anot); return o!

program to Convert a positive number into a rejetive number and negative number into a positive number vsiny a switch statement # include (statio.h) int mainl) int xix; Printf ("Goter a number ="); Scarf ("/d", 4x); Switch(Y) default; private (" > d", - x); returnoj

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odd number Switch Statement.
      #include < stdio.h>
      #tindude ( Conjo-h)
       int mount)
           interior cht, che
           int n,x;
          Bintf ("Enter a number = ");
          Scanf ("Xd", fn);
          X= n 1/2',
          Switch (x)
           Case 0:
                Printf ("Next odd number is = 1.d", n+1);
                break;
             Cone 1;
                Printf (" "d'is a odd number please Ruter a even
                           number", n);
      C program to find all mosts of a quadratic elucation using
(10)
       Switch Cone.
   # include < stdio. h)
    int mainl)
      inta, b, c, D, 1;
      Floot root 1, root 2;
```

Program to convert even number into its upper nearest

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Brintf (a) n enter the value of a, b, C for production
            (ax^+bx+c)\n");
  Scanf (" >d >d >d >d", Aa, Ab, fc);
   D=6*6-4*a*C;
   Switch(D>0)
   Case 1!
       Printf ("Both roots one distint and real (n");
        root 1 = ((-b+ str+(a)) / (2.0 * 9));
        root 2= ((-b - Strt (D))/(2.0 *a));
        Printf (" root 1 = > F (n root 2 = > F", root1, root2);
        break ;
  Case 0:
        switch (DCO)
           Printf (" Both roots are imagenary (");
           break;
     care 0;
          Printf ("Both moots are equal (");
          neot 1 = (-b/2*a);
          root 2 = (-b/2*a);
       Print f ("root 1 = x f (n root 2 = x f", noot 1, next 2);
         breck;
```