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Assignment B
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unite a program to check whether a given number is positive or non-(1)positive # include < stdio. h> int main () int x; Printf ("Enter a number \n"); Scamf (" >: d" /xx); if (21>0) Printf ("Positive number"); Printf ("Non-Positive number"); return 0) 1 write a program to check whether a given number is divided by sor not. thinclude (Statio. h) int maine) f intx; Printf ("Enter a number (MM); Scomf ("1, 2, 1, 2x); iP(x x5) Printf ("Not divisible"); Printf ("Divisible"); retumo; unite a program to check whether a given number is on even 3 #include (Stdio-h) int main() int n; Printf (" Enter a number \n"); Scomf (" xd", 4n); if (~ 1,2) Printf (" odd number"); else prinf ("even number"); returno;

m. 1. a program to check whether a given number is an even number or an odd number without using 1, operator. #include < 84dio. h7 int main() inti; Brints ("Enter a number"); Scamf ((1 x, d", 41); iF((i/2)*2==i);Printf (" Evennumber"); printf ("odd number"); returno; write a program to cheek whether a given number is a threedigit number or not. Hindude (Stdio. h) int main () int n, 1=0; Printf ("Enter a number \n"); Scanf (" x,d", &n); while (n! = 0) < i++; n=n/10; Printf (i == 3 ? "Three digit number"; "not three-digit number"); return o; write a program to print greater between two numbers. Print one number of both are the same. #Include (sAdio.h) int main () linta,b,x; Printf ("enter two number \n"); scanf (" x,d x,d", 4a,4b); x=a>b! 916; Printf ("greater number is xd", x); return o;

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Durite a program to cheek whether roots of a given luadratic
    eluction are real of distinct, real of equal or imaginary roots.
      #include < Stdio h7
        int main ()
       f mta,b,c,D;
        Floatet x, x;
        Printf ("Enter Coefficient of x12, x and constant M");
        Scanf ("xdxdxd", &a, &b, 40);
        D= b * b - (4* a * e);
         if ( ) (0)
           Printf ("both roots are Imaginary");
          if (D==0)
             Printf ("both roots are equal");
             x=-b/(2.0*2*a);
             Printf(" In roots is XF", X);
            if(D>0)
           Printf ("both roots are real and distinct");
             X= (-b+(sex+(0)))/(2*a);
              Y=(-b-(ser+(D)))/(2*a);
              Printf ("(n roots over f xf", x, y);
           return o
D'write a program to check whether a given year is a leap year or not.
    stindude (Hdio. h)
     int main ()
     (
        int n;
        Printf ("enter a year \n")
       Scanf (" xd", &n);
        if (n 1/400 = =0)
        Prints ("a lear year");
        else if (n ×100=20)
                                            printf ("not a leap year");
        f Printf ("not a leap-year");
          else if (n 1/4 = =0)
           Printf ("a lesp year");
```

```
1 write a program to find the treatest among three given number.
      Print number once if the greatest number appears two or three times
        # include & stdio. hy
         int maine
           intaibicin;
          Printf("enter 3 pumber \n");
          Scanf("Y.dr.dr.d", ta, fb, fc);
           neasblase la:c:b>clb:c;
           Printf (">d", n);
          2 retorno;
(10) write a program which takes the cast price and selling price of a
    product from the user. Now Calculate and print profit or loss percentage.
       #include Ustdio-h7
        int maines
          flood CP, SP, P;
          Printf ("enter Cost Price (n");
          Sconf ("1, #", RCP);
          Prints ("Enter selling Price (n");
          Scoul(" it", 489);
          if (space)
```

```
Scanf(":p", 4sp);

if (sp>cp)

{

P=sp-cp;

Raintf (" Profit Percent is %f %%", (p*100)(cp);

if (cp>sp)

{

P=cp-sp;

Printf ("Loss percent is %f %%", (p*100)(cp);

else

Printf ("No Loss and No profit);

neturn 0;

}

write a program to take marks
```

write a program to take marky 5 subjects from the user. Assume marks are given out of loo and passing morks is 33. Now display whether the condidate passed the examination or failed.

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#include (Stdio. h)
 int main ()
 fint Hie, Misisc;
   Printf ("Enter 5 subjects manks out of hundred (n");
   Printf ("Enter This sequence - Hindi, English, Math, Science and Social Science (m);
   scanor (" r.dr.dr.dr.dr.d", 4M, 4E, &M, Es, Esc);
   if(HZ=100 ffEZ=100 ffMZ=100 ff SZ=100 ff SZ=100)
     if (H >=33 44 E>=33 R& M>=33 R&S>=33 R&SC>=33).
       frints ("congratulation you passed in exemi");
        Printf ("fail");
    else
       Point ("please enter marks less than 100");
    return 0;
write a program to cheek whether a given alphabet is in upper case or
lower Case.
 #tinclude (stdio.h)
  int main ()
     int x;
     Printf ("enter a alphabet \n");
     Scomf (" x, c", 4 x);
     if(x)= 'a' & + x <= 'z').
        Printf ("Lowercase");
      else if (x7='A' L4 x<='z')
           Printf ("Upper Cose");
```

(3) write a program to check whether a given number is divided by 3 and divisible by 2.

#include(stdio.h)
int main ()

int n;
printf(" Enter a number \n");

Printf("special character");

else

return o;

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```
if(n/3==odfn/,2==o)
                   Printf ("Divisible by 3 and 2");
                   Printf ("Not Divisible by 3 and 2");
                returno;
                program to check whether a given number is divisible by 7
  (14) write a
        or divisible by 3.
       # include (stdio-h)
        int main ()
        f intn;
           Printf ("enter a number \n");
           Sconf (" Yid", &n);
           if(nx7==044nx3==0)
            Printf (" x dis divisible by both number 7 and 3", n);
            Printf (" x'd is not divisible by both number 7 and 3", n);
         returno;
    write a program to cheek whether a given number is positive, negotive
(15)
      # include < stdio. hy
        int main ()
          int n;
          Printf ("enter a number ) n");
          Scamp(" " d", fn);
         if (n>0)
           Printf ("Positive");
         elseif(nco)
           Printf ("Negodine");
         ehe printf ("Zero");
         returno.
```

Scomf(" xd", dn);

```
(16) comite a program to check whether a given character is an alphabet
     (uppercase), an alphabet (lower case), a digit or a special charactery.
    #tinclude < Stdio. h>
       int main()
        int n;
        Printf("Goter a character(");
        Scanf (" 1/2 ", an);
        if (n)= 'A' ++n<= 'Z')
           Printh ("upper case");
        elseif (n7='a' 44 n <= 'z')
           Printf (" lower Cage);
         elseif(n>='o' +fnc= 191)
            Printf ("Digit");
        else
           Printf ("Special character");
      redusmo;
     write a program to calculate which takes the length of the sides
(F)
      of a triangle as an input. Display whether the triangle is
      Valid or not.
    Hinclude (Stdio.h)
      int maines
      linta,b,c;
        Printf ("Enter length of the Side of a triangle ("");
        Sconf("xd. %d xd", la, 4b, fc);
        if (a+b) cel a+b) bel b+c) a)
          Printf (" Triangle is valid");
           Print ("Triangle is not valid");
       2 returno;
      write a program which takes the month number as an input and
(19)
      display number of day in the month,
         #in clude (statio.h)
          int main ()
           int m;
```

```
Print & ("Gater month number (n");
Scanf (" >, d", &m);
if(m ==1);
   Prints ("January");
else if (m==2)
   Printf ("February");
else if (m==3)
    Printf ("march"),
 else if (m==4)
    Printf("April");
 else if (m==5)
   Printf(" mayor"),
 else if (m= =6) #
   Printf ("June");
 else if (m==7)
    Printf ("July");
  else if (m == 8)
    Printf("Ayust");
  else if (m==9)
    Printf (" september");
  elseif (m==10)
     Prints ("october");
  else if (m==11)
      Prints ("November");
   elseif (m==12)
      Printf (" December");
   else
       Printf ("Invalid month number");
  return 0;
```