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Assignment - 8
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(1) Write a program to check whether a given number
    divisible by 3 and divisible by 2.
 Ans - # include (stdio.h)
    int main!)
        printp(" enter a number");
           Scanf ("ofod", x); ]
     (x.1.3 == 0 & & x.1. 2 == 0)
            printf ( Divisible by 3 & 2)
  else
    pointf("Not Divisible by 38 2");
        getch ();
(2) write a program to check wheather a given number is
  Ans- int main!; 7 or dévisible by
       [ int x ;
                  · printf ("enter a numper");
                  Scanf (" /od, &x);
  if (x 1/0 7 == 0 11 x 1/0 3 == 0);
         printf (Divisible);
    paints ('Not Divisible);
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3 write a program to check whether a given number is positive.
Ans - # includer stdio.h.)
         int main()
             { inl x;
         prints ("enter a number");
Scaps (" "/d", x);
            printf (" positive);
else.
      (x <= 0)
             Printf (" Nagetive);
(4) Write a programm to check given year is leap
 year or not
And - # include & stdio.h)
int main() {.
             int y ;
     printf ("Enter the year to cheek");
scanf ("of od, &y);
     (14.4==0) && (4.1.700p==0) 11 (A.400==0)
        printf(" It is a leap year");
        print f ( "Not leap year ");
```

(5) Write a program to check greater among three numbers if all then print it only once. Ans - # include ( stdio h > int main () { double no, no, no; pointf ("enter three different number's")
scanp ("1-1f-1-1f-1-7f", & nz, & nz, & nz) if (n1) = n2 de n1) = n3) printf (" 1. 2f is the largest number", n1) if (n2 >= n2 && n2 >= n3) painty (" 1.21 is the largest number ", n2) if ( m3 >= n1 & l n3 >= n2)

printf (" 1.2f is the langest number", n3) getch (); (6) Write a perosperam to check given character is an alpabet (uppercase), an alphabet (rower case), a digit or a special charecter. main 1) { chas x; print f ("enter a character"); Scanf (" o/o c", d x);

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if (x>='A' && x<='z')
    else if (x >= 'a' S& x <= 'z')
          paintf (" couracase Alphabet");
     else if ( 2)= 'd d& x(= 'g')

paint ( 'l Diget ");
       else printf (" special character!);
           get chil);
(F) Write a program which takes the length of the sides of
     a tringle as an input. Display tringle valid or not
Ans - # include ( Stalip. h >
        inl main ();

[ a = int (input ("Enter pirl side"; "));

b = int (input ("Enter second Side"));

C = int (input ("Enter second Side"));
     if atb>c and btc>a and atc>b:

printf("Iriangle possible");
else:
                printf (" Iringle Not possible);
(8) Write a perogram which takes the month number as an input and display number of days in their month.
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Ans -

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# include (stdio.h)
      int main!
      { int month;
         printf("Enter month number (1-12):");
           Scomp ("1.d", 4 month);
       (month = = 1) | month = = 3 | month = = 5 | month = = 7 |
       month == 811 month == 1011 month == 12)
             paintf (" 31 days");
    if (month = = 4 11 month = = 6 11 month = = 9 11 month = = 11)
               paintf (" 30 Days");
     if (month == 2 )

printf (" 29 or 28 min);
      while a program to input marks of five subjects
      Physics, chemistry, Biology, Mothematics and
Computer Calcutate percentage grade according to
       int main()
Ans -
        Eint applide:
          Float - per;
         printf ("enter a five Subjects marks");
Scanf (" % d % d % d % d % d", & a, & b, & c, & d. & e)
          per = (a+b+c+d+E/5.0);
            prints (" Percentage = 1. 2f/n", Per)
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if (per > = 901)

{ printf ('Granade A'');
 else if (per> = 80.1).
       E printf ("Conade 13");
 else if (per > = 70f) |

E printf (" (rrade ");
  else if (per > = 601)
            Eprintf (Grande D) i
   else if (per > = 40 %)

E print (" Gorade E");
     else (per <= 40 /· )

porint p (" Cronade F");
1 white a program to find nature noobs of a
     quadratic equation.
     moun()
         float a, b, C, r, r, r, d;
         printf ("enter the values of a b c");
            Scanf ("1.f. 1.f. 1.f", 8a, 8b, 8c);
               d= bxb -4 axc3
          r= - b+ sqrt (d) / (2 a)?

r2 = -b - sqrt (d) / (2 a);

printf ("The soal soots = 10f 40f", M, r2);

?
      if (d>0) {
```