HSSIGNMENT - 8 (C language) Diwrite a Program to check whether a given number is divisible by 3 and divisible by 2. # include < stdio.h> int main() Int h: Printf ("Enter number"); Scanf ("%)", ln); if (n%3==0 && n%2 ==0) Printf (" Divisible"); Porint ("Not Divisible"); return 0; 02) Write a Program to check whether a given number is divisible by 7 or divisible by 3. 4 include < Stdio.h> int main() [int h; Printf ("Enter humber"); Scanf (" old", kn); 1f(h%7==0 @11 h%3==0) Printf ("Divisible"); else Print ("Not Divisible"); viction 0; (3) Write a program to check wheather a given humber is positive, may else if (n20) (h<0) & the or zero. Printf ("Deg twe"); # include & stdio. h> elie fint n led & toutoo Paintf ("Enter Number"); Printf ("negtive), Scouf ("%)", In); gret win O; 1f(n>0). Print f("Positive);

O4) Write a program to check wheather a given year is a leaf (2) Year or not. # include < stoio.h> int main() { int year; Printf ("Enter year"); Scanf ("%)" , Lyear); Heyear 10 400 Lb year If ((year %) 100=20 le year % 400==0) 11 (year % 400!=0 le year %, 4== Print ("leap year"); ele tomal year'). Printf ("hormal year"); oreture O; OS Write a Program to find breater among three numbers. If two or three numbers are identical and greatest among all them print it only once. #include < Stdio. h> int main() { int h1, h2, h3; Printf ("Exter number"); Scanf ("/of /of for Scanf ("0/00 0/00 0/00", kn1, kn2, kn3); If (n1>h2 LL hb h3) & Printf ("Crocatest No: , old", n1); chelf(h2>h1 LL h2>h3) Printf ("breatest No: 0/0 d" chelf (n3 > h1 L6 h3 > h2) Printf("breatest No: 0/00", h3); ekelf (hz=h3 Ll no) Printf ("Greatest No: %d": h2); Male of the office Clre Printf ("All No. are itentical"); refuin 0;

Of Write a Brogram to check wheather a given character is as alphabet (EFFER Caxe), an alphabet (lower Case), a digit or a Special Character #include < stdio.n> int main() Char x; Brintf ("Enter Input"); Scanf ("0/00", &x); If (x>='A' LL)(Z') Porintf ("UPPER CASE"); clarif (XX)= a' LL XX = 2) Parint ("lower (ose"); Che if (x>='0' Lh xcl='9') Printf ("Digit"); Che Printf ("Special Character"); JICHOIN O; ©7 Write a Program which takes the length of the Sides of a triangle as an input. Display wheather the triangle is valid or not. int main () { int S1, S2, S3; Printf ("Enter Sider"); Scanf ("dod" o/od "/od", LS1, LS2, LS3); If (S1+S2>S3 LE S2+S3>S1 S3+S1 > S2) Printf ("Valid triangle"); elhe Printf ("Invalid triongle");

}

refurn O;

98) Write a program which takes the Month number as ah input and display number of days in that month. #include<Stdion> int main () int month-hum; Printf (Enter Month-hum (0-12)"); Scanf ("0/00", & month-hum); f(Month-hum == 1 11 month-hum == 3 11 month-num == 5 month_num == 8 // month-num == 10 | | | month-nym = = |2|Parint ("31 Days"); month-hym == 9 11 month-hum= Printf ("30 Days"); else if (month-hum == 2) Print ("28/29 Days"); Che Paintf ("Invalid month-hum); grefuin O; Dg Write a Porogogm to find the nature of roots of a quadratic exception tint main(), int a, b, c, d; Printf (Enter Coficer4"); Scanf ("%od %d %d", ka, kb, kc); \$ d = 6 * 6 - 4ac; 1f(d>0) Printf ("Real and distinct (Rooth");
else (f(d==0) Parintf/" Real and pour Roots");

else Brintf ("Imaginary Roots"); refun 0; Chemistry, Biology, Mathematica and Computer, Percentage and grade according to following: Percentage >= 90%: Grocade A Percentage >= 80%: Grade B Percentage >= 70%: Grade C Percentage >= 60%: Chrade D Percentage >= 50 %: hisade E Percentage 200 < 40%: Crisade F # include 2Stdioin> int main() lint Phy, che, Bio, Math, Com, Percentage; Scanf ("1.d %d %d %d , LPhy, Lche, LBio, Lmath, LCam) Porcentage = (Phy+Che+Bio+Mathx+Com)/5; If (Percentage >= 90%) Grade = "A" (", Percentage); Print (Percentage: % 0 % 0% ehelf (Percentage 7= 80 🛊) (wade = B", Percentage); Printf ("Percentage: % od % % else if (Percentage >= 70%) (made = C', Percentege); Brintf ("Percentage: ofod %.0% else if (Percentage >= 60)

Che If (Percenterge: % of % of brade E", Percentage);

Che If (Percenterge > 2 40)

Printf ("Percenterge: % of % of % of Grade F", Percentage);

eke

& Brintf ("fail");

Print ("Percentage: % of % % birate D", Percentage);