CLASS - AU(2). C-Purguamming White a Chroquer for calculating the brice of a product after adding the sales tox to its the sales tax to its original price. Where viate of tax and price is inputted by user. Any # include < stolic.h> int main () § bloat original Price, tax Rate, total Price; Pocint ("Enter the original Purice: "); Scant ("/f", & original price); Purint ("Enter the tax wate (as a busintage): Scart ("/f", & tax Rate) total Prince = original Prince + (original brice \* (tax Rate /100)); Printf ("Total piece including tax: \$ 1.2f \n", total bucce); viction o; 2) Murite a c program to calculate the weekly wages of an employer. The pay depends on wages per hour and no. of hours worked. Moreover, if the embloyee has worked for more than 30 hours, then he are she gets twice the wages per howr, for every extra how that he or she has worked. Ary # include < stolio.h> int main ) { double hourly - wate; int hours - worked; Porintf ("Enter the howly mate: "); Scanf (" / 1f"), & hourly wate); Pointf ("Enter the hours worked:"); Scanf ("/d", & hows-worked); double weekly-kay; If (howrs-worked <= 30) & weekly- pay = hourly - mate\* hours - worked; & else & weekly-bay=(hourly-viate \* 30) + (2\* hourly-viate \* (hours-Point ("Weekly bay: \$1.21f \n" weekly-kay); ¿ victuro o;

```
having a converge of Rs. 500 with him to one of the principal of Rs. 50. 0 per kg, 15 mg. 1. 0 kg the priced Rs. 50. 0 per kg, 15 mg. 1. 0 kg the Rs. 36. 0 per kg, 2.5 kg Potato priced 10.0 per kg, and 1.0 kg the priced Rs. 36. 0 per kg, 1.5 kg Potato priced 10.0 per kg, and 1.0 kg the priced Rs. 15 per kg. He gives the converge of Rs. 500 to the priced Rs. 15 per kg. He gives the converge of Rs. 500 to the priced Rs. 15 per kg. He gives the converge will without tox by shokeeper. Final out the amount Shopkeeper will without tox by
                                                                             And # hollade < stellio. h.
  writing a Chrogram
 Any# include < stdio.h>
         int main () {
       pleat apple-price = 1.5;
       blood mango - buce = 35;
        float botato - brice = 10;
       floor apple -9, ty = 2.0;
         " margo " = 15;
" botato " = 2.5;
              tomato " = 1.0;
      Mout apple - cost = apple - price * apple - 9ty;
             margo " = margo - " * margo - 9+4;
           botato_11 = botato -11 * botato -9ty;
          tomato- 11 = 500;
     bloat total - cost = apple - cost + mango - cost + potato - cost +
                                                                                     tomato - cost;
    bloot available - money = 500;
    if (total-cost <= available-money) {
   Printf ("Mr. X can kurchase all the items. Total cost: 1.2+"
                                                             unbeers \n", total - cost);
   Eclose &
   printf ("Mr. X does not have enough money to burchase all the items. Total cost: 1.21 rupees \n", total - cost);
 veturno;
```

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10 gd sed 0.00. 80 miles 000 00
                         and this and boduon of
  Ans # include < stello h>
   int main ) f
   buint + ("Name: Your Name In");
   printf ("Dale of Biroth: January 1,2000 \n");
   printf ("Mobile No : 123-456-7890/n');
   victuren o;
135 Write a program to read on integer, a character and a flo
  value from keyboard and display the same in different line
 on the screen.
Any # include <stdio.h>
   int main ( ) &
  integer-input = int (input ("Enter an integer: "))
  Char-infut = infut ("Enter a character: ")
   plot - input = input ("Enter a plot value.")
   brint ("Integer:", integer-input)
   brint ("Character:", Char-input)
  print ("Polot value:" blot - input)
  vietuino;
 29
O6. Write a program to print the bollowing line (Assume the
total value is contained in a variable named cost)
The sales total is: $ 172.53
Are # include < Stdio. h>
    int main () $
    total =$172.53
   Pixint (" Assume the total value contained in a variable
             named (Caused the same for total is &: 2f &' "
             format (total))
    violurin 0;
```

Akash. He wants to know how many apples in which consider my without adding them. Write a brogram which consider my many apples in doing this.

And apples - from unaghu = 6.5

apples - from - Shinu = 6.5

apples - from - akash = 6.5

total - apples = apples - from - unaghu + apples - from - Shinu + apples - from - apples - f

Os Write a program to input and print your mobile no.

Any double value = 12345. 6789; brintt ("Value in extrential format: 1.2e/n", value); creturn 0,

exponential format coursed to two decimal places.

Any number = float (input ("Enter a bloating-point no.:")

formatted - no. = "E:. 2e 3". format (no.)

print ("Formatted no.", formented-no.)

veturn o.

Bio. The population of a city 1s 30000. It increases by 20% during the second year. Write a program to find the population after two years?

1

prowth - year 1 = 0 20

population - year 1 = in itial - population \* (1+ graph delication - year 2 = Population - year 1 \* (1 + graph delication - year 1 \* (1 + gra

population - year 1 = in itial - population \* (1+ growth - work - years)

population - year 2 = population - year 1\* (1 + growth - wate-years)

print + (" population after 2 years: ", int (population - years)

verturn 0;

In the - inter-t ("Take a stand the ASCII value of a character.

Ing Char = infect ("Enter a character: ")
ascii - value = ord (char)

printf ("The ASCII value of 'Echarg' is & ascii, value

Size Write a program to calculate salary of an employee. given his basic pay (entered by user), HRA = 15% of the basic pay and TA = 20% of the basic pay.

ne basic bay - float (input ("Enter the basic bay: "))

hua=0.15 \* basic - bay

ta = 0.20 \* basic - bay

Salary = basic - bay + huat ta

brintt ("The total salary is: & total salary 3")

brintt valueno;

print &

Os White a program to kind the slope of a cline and angle of inclination that basses through two points P and Os with Coordinates (xp, yp) and (xq, ,yq) wespectively.

A sill a) brief

```
In What is the bind in
  Ang infort math
  XP- Alond (who) ( "Enter the X - C
 stoke = (49, -40)/(x0-x0)
 angle - machines=math atan (Slope)
 angle-degrees = math degrees (angle-viadians)
 build+ (118lope of the line: & Slope 3")
        ("Angle of inclination (degrees): & angle-degreesy"
 existerion 0;
                                   Spit = (grade-points [i] * credits
(SIY Any int main ()
         in + k=5;
        Alcat Spi = 0.0;
                                     Printf ("SP I1 . 28 \n" SPI);
         aloat grade-points[k];
                                    weturn o;
         int credits [k];
         Print ("Enter grade points and credits for each course : \n");
          for (int i=0, 1< k; i++) &
         print ("Course 1 d - trade points", 1+1);
         Scart ("7. f") of grade points [i]),
         scart ("course 1.d Credits:", iti);
Scart ("X d"; & credits [i]);
Q15. Write a program to calculate the briguency (f) of a
 given more with wowelength (A) and sheed (e), where
 č= xxf.
Are wavelength = black (input ("Enter the wavelength (1) in
                              meters: "))
    Speed = bloat (input ("Enter the speed (c) in meters
                                per second: "))
     broquency = speed / wavelingth
Print ("The brequency (f) of the wave is:", broquency, "Hz")
   2 detuino
```

```
om/s accelerates steadily at 5 m/s2 fo
                m what is the final velocity of the care
         = u2 + 2as 7
Ans int main ( ) &
clouble initial-velocity = 30.0;
 double acceleration = 5.0;
  double distance = 70.0;
  clouble final - velocity = squt (bow (initial - velocity, 2)+2)
  acceleration* distance);
  printf ("The binal velocity is %. 21f m/s/n", final velocity
 enoturno;
OSITA house accelerates steadily from vist at 4m/s² for3
(a) What is its final velocity ? (b) How fare has it travelled
[Hint: (a) + = u + at (b) s-ut + 1/2 at 2]
Are int main() }
    double u-0.0;
     double a =4.0;
      double t = 3.0;
      double v, s;
      v=u+(a*+);
       S=(u*t)+(0.5*a*t*t);
      Print ("Final velocity (v): 2f m/s \n", v)
      Print ("Distance Traveled (S): 1.2f meters \n",S);
      return 0;
  818. Write a program to find the sum of your four la
   digit of your university well no.
   1. in L main () &
```

```
you amy I around I Nampara 12 ] - Jan in
  of inall Nomber 111 - 10' 22' not Number 11)
     som to not Numberality 'o';
  Tribel Com of the close obgits of your university not number
 dilumo.
 Inheight em - black (input ("Entercyour height in cen timeters: "))
    wight ig - Aloat (input ("Enter your weight in kirlograms."))
   om to inch = 0.393701
   ha to alb = 2.20462
   height - inch = height - cm * cm - to - inch
   weight - db - weight - kg * kg - 40 - db
  printf ("Your height in fut: Sheight-inch /12:2f 3ft")
  Frintf ("Your weight in bounds: & weight - Ib: 2f 31bs")
   underno;
   Geo. Char oftion - b = 'b';
       int sum = 0;
        bloat product = 1. of;
Br
    Ber White a program that reads nine integers. Display
      these numbers by kreinting three no. in a line subarated
       by commos.
    Any int main () &
        int numbers [9];
      Print ("Enter 9 integers, separated by spaces: \n");
       for (mt i=0; i<9; i++) &
```

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mese no were entered: \n");
       11-0:1-9:i++)s
  Printl ("1.01"; numbers [i]);
    print (", ");
  "clse if (i!=8) &
     print (" ");
   Recent (" \n");
2 vieturno;
$22. What are header lides and what are it was in C
programming 9
Ang intadd (inta, intb);
    void greet (char * name);
   int main () }.
  int vesult = add (5,3);
  Print ("The wesult is Id/n", we sult);
  char name [] = "Alice";
  gueat (name);
  vieturno;
 2
O23. What will be the output of bollowing broguams
 Ang Output will be 0,0,0.
 824. What will be the output of following buogram?
 Any Ootput will be a GILA UNIVERSITY 14
```

AngiPython- Ten(): This fun disturbns the distant on testers of the distant of the strange that t ('Hello') would return '5'. 2 ct+ 'stel :: cout'. This is band of the ct+ Stardard vibrary and is used for output. 3 Java souts - Two function adols one or more claments to the end it an away and returns the no eleigth of the overay 4. Java - This bunction is bout of the Java Standard Mbrarry and calculates the square toot of di bury kadion -> Pourt, Scant, Stylen, Squet. S26. What will be the output of bollowing pur gram? Are C is a plecement oriented languageHI30 36 10 \$27. Whis the meaning of bollowing Statement ? Pour at ("1. d; sout ("1.d1.d"; da, db)); Are Statement prints the no. 2 to the conside, indicating that two integers were successfully read by 'scarf'. B28. What will be the output of following knogram ? O Are Output wiell be: "C 1. For 1. PLACEMENT ". US29. Int main () & double distance, time, speed; Pur Int ("Enter the distance in kilometers:") Scant ("11.11"; & distance); Problem ("Enter the time in hours: 3);

Scant ("1.1f", & time);

```
the bus is 1 218 today
  13. 20 mit minim ( ) $
    int satyon marks - 66,
    int Suman manby 7;
    int of war marks - 80,
 Alm L. Augus M. Satyam Marks + Suman Marks + Shivam Marks;
  Policie L. average Marks = (bloat) total Marks /3;
 trunt ("Average marks: 7. 29 /n"; average Morks);
 mechinen o
031 Struct Person &
    Chariname [20];
     bloat money;
 int main () &
     Struct Person mohan, saurabh, sejal, varsha;
    Stucky (mohan-name, "Mohan");
     Mohan money = 0.05
     Stucky (Sourabh. name, "Saurabh"
     Sawach money = 100.0
     Stucky (Sejal name, "Sejal").
     Sajal money = 0.03
     Stucky (varisha. name, "Varisha");
     Vousha. money = 0.0;
    Varisha. money + = Sawabh money;
    Sawabh. money =0.03
   Pavist f("/.s now has 1.24 morey \n", mohan name, mohan money);
                                         Saurabh. name, saurabh money)
```

```
* 4014m
              Yoursha name, Varsha morro 3
examo 0;
32 int main ) &
Woat speed - kmph = 40;
bloat time minutes = 3.0;
blood time-hours = time-minutes (600;
bloat distance - km = Speed kmpn * time - howes;
wint ("You traveled 1. 21 kilometers. \n", distance-km);
returno.
S33. Can two or more escape sequences such as In and to
be combined in a single line of brogram coole?
 Ary int main () &
   printf ("Hello, would! In This | His | tabbed | Hine. In?
   vuturno;
 azy what are comments and how do you insurt it in a c
   program o
 Are int main () &
    printf ("Hello, World!\n");
    return o;
  OSS. What is working in this statement of Scant ("1.d", number).
4 Are int main ()
       Scout ("Y. d"; Snumber);
     vieturn 0;
```

```
O mukery
  blo at grow - i emp, and, there is book is my soup
Are Do at guoss calony,
    Wood interest;
   about salary of employee;
   bloot average;
   gross - salary = 50000.0)
   interest = 0.05;
   answer of employee = 420000;
   everage = (gross-salary + Salary of employer)/2;
   Point ("Cruoss salary + salary. 1. 24 \n' gross salary);
           (" Interest: 1.2+ (n'), interest)
            (" Salary of Employee: 1/2 F/n', salary of Employee);
            ( "Average: 1/2 It mil, average);
   vieturno;
038. drain reade = 25
      total gallons=175
     time viequired hours -total gallons / drain rate
     hours = int (time vequired hours)
     minutes = (time required hours - hours) $ 60
     Print ("It will take tomb & hours 3 hours and & minutes 3
       minustes to completely abrain the tenk ! )
    outurno;
039. double battery Power = 1.03
     do while sauget Power = 0.75 }
       double hours =0;
    while Chattery bower >target Power) &
            battery Power -= 0.2;
           howes +=1;
    Pour ut (" It takes 1. If hours box the battery power to
  eventures; vieach 75%/. \n", howy);
```

840. (b) interpreter 341(0)7.0

842 (d) 7. .20

B43. (b) arkay Osy, outfut will be withell'8 &45 (a) garbage, 5

By6. (b) bosic - bay

847 (a)c1

Bygook 10 1101101101- 10011 12 (6) (765.51)8 (c) (1420.21)6 (d) (43.3)5 (e) (2045)7

949 19 125 9444)10 (6) (5120.90625)10 (C) (482.90625)10 (d) (44181 76953105)10

\$50. (40 Hollolololo . 110011010100)2 (0333.6652)8 (1312.3132)4 851 (100/11011.1000/0)2 (315.25) 10 (98.82) 11 (244.102)5

Q 52. (as (17)4 (b)(41) 0 (C)(101)1

& 53. Integer 2 bites can store values from - 32767 to 32767 for signed integer when you assign 32770 to "a" the output will not be predicted it night print a seemingly handom value or behave unexpectally.

854. Outfut will be: temperature in Fahrenteit 1537.00

observed product of the second the second of the