

Ans 16]  $\#include <stdio.h>$   
 $\#include <math.h>$

```
{ float v  
    int u, a, s;  
  
    a = 5 ;  
    u = 30 ;  
    s = 70 ;  
  
    v = Pow ( u*u + 2*a*s , 0.5 ) ;  
    Point f (" The final velocity = " . f " v );  
    return 0 ;  
}
```

The final velocity  
= 40.00000

Ans 17]  $\#include <stdio.h>$   
int main ()

```
{  
    float s ;  
    int a=4 , v , t=8 , u=0 ;  
  
    v = u + a*t ;  
    Printf (" %d \n , v ) ;  
  
    s = (u*t) + (0.5*a*s Pow (t , 2 )) ;  
    Point f (" %f \n , s ) ;  
    return 0 ;  
}
```

18.00

12

Ans 25] The library features is a collection of several sub libraries which contains the code for several functions are:

Ceil , Cos , Clock , clearerr , math.h, time.h

Ans 26] C is placement oriented language ~~but~~

30    36    10

Ans 29] # include < stdio.h >  
int main ()

{  
    Enter distance in  
    kms : 100

25.00

int K ;

float Speed ;  
Print f (" Enter distance in kms : ");  
Scanf (" %f " &K );

$$\text{Speed} = \frac{K}{4.0}$$

Print f (" Speed = %.2f " , Speed );  
return 0;

Ans 30] # include < stdio.h >  
int main ()  
{  
    Avg = 66.67

float Avg

int Satyam , Suman , Shyam ;

$$\text{Satyam} = 50 ;$$

$$\text{Suman} = 70 ;$$

$$\text{Shyam} = 80 ;$$

$$\text{Avg} = (\text{Satyam} + \text{Suman} + \text{Shyam}) / 3.0 ;$$

$$\text{Printf} (" \text{Avg} = %.2f " , \text{Avg} ) ;$$

return 0 ; }

$a = RN \% 10 ;$   
 $RN = RN / 10 ;$   
 $b = RN \% 10 ;$   
 $RN = RN / 10 ;$   
 $c = RN \% 10 ;$   
 $RN = RN / 10 ;$   
 $d = RN \% 10 ;$

Give your toll no.  
 $= 12300034$

The sum is  
 $= 7$

$s = a + b + c + d$

Printf ("The Sum is : %d ", s);  
 return 0.

Ans 19] #include <stdio.h>  
 int main ()  
 {  
 float h, w, feet, Pound;  
 Scanf ("%f %f", &h, &w);  
 feet = h \* 0.393701;  
 Pound = w \* 2.20462;
 }

Printf ("height in feet is %.2f weight in Pound  
 is %.2f", feet, Pound);

return 0;

$$\text{range} = 500 - ((2.0 * 50) + (1.5 * 35.0) + (10 * 1.0) + (1.0 * 15))$$

```
        ("change amount is : %f", change);
return 0;
```

```
#include <stdio.h>
```

```
int main()
{
    Point f ("Lakshya Rawat /m ");
    Point f ("18th July 2006 /m ");
    Point f ("9571081090");
    return 0;
}
```

Lakshya . Rawat  
18<sup>th</sup> July 2006  
9571081090

```
#include <stdio.h>
```

12	5	23.6
5		
23.6		

```
int A;
```

```
int B;
```

```
int C;
```

```
scanf ("%d %c %f", &A, &B, &C);
```

```
Pointf ("%.d \n", A);
```

```
Pointf ("%.c \n", B);
```

```
Pointf ("%.f \n", C);
```

```
return 0;
```

Ans 46] (b) Basic = Pay

Ans 47] (a) C1

Ans 54] It will give output as follows  
Temperature in fahrenheit is 37.00

Ans 53] Output = -32766  
It will go for cyclic dep. proof.

$$\begin{aligned} \text{Ans 52]} \quad (23)_{10} &= (17)_A \\ (2 \times 10)' + (3 \times 10^0) &\Rightarrow 23. \\ (1 \times A)' + (7 \times A^0) &\Rightarrow A+7 \end{aligned}$$

$A+7 = 23$   
 $\boxed{A = 16}$

$$\begin{aligned} (21)_{16} &= (1541)_A \\ 2 \times 16' + 1 \times 16^0 &= 4 \times A^1 + 1 \times A^0 \\ 32 + 1 &= 4A + 1 \\ 4A &\stackrel{=} 32 \\ \boxed{A = 8} \end{aligned}$$

Ans 6] # include <stdio.h> The sales total is \$  
int main () = 172.53

```
{  
    float cost ;  
    Cost = 172.53 ;  
    Pointf ("The sale total is : $ %.2f " , Cost );  
    return 0 ;  
}
```

Ans 7] ## include <stdio.h> 19 . 50 .

```
int main ()  
{  
    float Apples ;  
    Apples = 6.5 * 3 ;  
    Pointf ("%.2f " , Apples );  
    return 0 ;  
}
```

Ans 8] ## include <stdio.h> 28.60

```
int main ()  
{  
    float numbers ;  
    Scanf ("%f " , &numbers );  
    Pointf ("% .2f " , numbers ) ;  
    numbers ;  
    return 0 ;  
}
```

Ans 12 #include <stdio.h>  
 int main ()  
 {  
 float basicPay , CTC ;  
 basicPay = 15000  
 CTC = 20250.00000
 }

Point f ("Enter value of basic Pay : ");  
 Scan f ("%f" , & basicPay );

$$CTC = (\text{basic Pay}) + (\text{basic Pay} * 0.15) + (\text{basic Pay} * 0.20) ;$$

Point f (" The CTC of This man is : %f " , CTC );  
 return 0 ;  
 }

Ans 13 # include <stdio.h> Enter Coordinates of two  
 # include <math.h> Points : 8798  
 int main ()  
 {  
 int xp , yp , xq , yq ;  
 float slope , angle ;  
 Point f ("Enter coordinates of two points : " );  
 Scan f ("%d %d %d %d" , &xp , &yp , &xq , &yq );  
 Slope = (yp - yq ) / (xp - xq ) ;  
 Point f ("slope = %f " , slope ) ;  
 Angle = atan (slope) ;  
 Point f ("angle = %f " , angle \* 180 / 3.14 ) ;  
 return 0
 }

```
int g1, g2, g3, g4, g5, C1, C2, C3, C4, C5, SPI;  
Pointf ("Enter Grades : \n");  
Scanf ("%d%d%d%d%d", &g1, &g2, &g3, &g4, &g5);  
Pointf ("Enter Credit Points : \n");  
Scanf ("%d%d%d%d", &C1, &C2, &C3, &C4, &C5);
```

$$SPT = 1.0 * \frac{(C_1 * g_1) + (C_2 * g_2) + (C_3 * g_3) + (C_4 * g_4) + (C_5 * g_5)}{(C_1 + C_2 + C_3 + C_4 + C_5)}$$

```
Pointf (" SPT = %d ", SPT)  
return 0;
```

```
Ans 15 ] #include <stdio.h> Enter wavelength : 30  
int main()  
{  
    float freq, Speed, wl;  
    Pointf ("Enter wavelength : ");  
    Scanf ("%f", &wl);  
    Pointf ("Enter speed");  
    Scanf ("%f", &Speed);  
    freq = Speed / wl
```

```
freq of this wave: 3.00  
float freq, Speed, wl;  
Pointf ("Enter wavelength : ");  
Scanf ("%f", &wl);  
Pointf ("Enter speed");  
Scanf ("%f", &Speed);  
freq = Speed / wl
```

```
Pointf (" freq. of this wave: %.2f ", freq)  
return 0;  
}
```

Point f ("if m"; distance);  
return 0;  
}

Ans 33] Yes , in C , we can combine two or more escape sequences in a single line of program code .

Eg :- \n\t Lakshya , --- , --- Lakshya

Ans 34] Comments are parts of program code , which compiler doesn't read , they are used to make the code more understandable for user  
" // " are used to comment the code .

" /\* ..... \*/ " can be used for multiple lines .

Ans 20] (a) char option

(b) int Sum = 0 ;

(c) float Product = 1.0 ;

Ans 21] #include <stdio.h>

```
int main()
{
    int a,b,c,d,e,f,g,h,i;
    int a,b,c,d,e,f,g,h,i;
    Point f("Give values of int = ");
    Scanf ("%d %d %d %d %d %d %d %d %d %d", &a, &b, &c, &d, &e, &f, &g, &h, &i);
    Point f ("Give values of int = ");
    Scanf ("%d %d %d %d %d %d %d %d %d", &a, &b, &c, &d, &e, &f, &g, &h, &i);
}
```

Point f ("%d %d %d %d %d %d %d %d %d %d", a, b, c, d, e, f, g, h, i);  
return 0;

Ans 22] A header file is a file with extension in which it contains function declaration to be shared f/w Several sources files , There are 2 type of header files

Ans 23] 56 ----- 70 ----- 38

Ans 24] GIL UNIVERSITY 14,

Ans 35] `Scansf ("%.d", number);`

`Scansf ("%.d", & numbers);`

Syntax Error , it will take the address of variables where it should store input values .

Ans 36] NO

Ans 37] Gross - Salary , salary of emp , avg .

Ans 38] ~~# include < stdio . h >~~  
~~int main ()~~  
~~{~~  
~~int x = 25 , t , tank = 175 ;~~  
~~t = tank / x ;~~  
~~Point f ("Time taken is : %.d hour ", t );~~  
~~return 0 ;~~  
~~}~~

Time taken is : 7 hour  
~~int main ()~~  
~~{~~  
~~float y = 0.75 , x ;~~  
~~x = (1-y) / 0.2 ;~~  
~~Point f ("No. of hours = %.2f hour ", x );~~  
~~return 0 ;~~  
~~}~~

Ans 31] # include < stdio.h >

```

int main ()
{
    int mo , sv , sj ;
    Point f (" Enter money given to Saurav
    and Sajal respectively : ");
    Scan f (" %d %d " , & sv , & sj );
    mo = sv ;
    sv = sj ;
    sj = mo ;
}

```

Point f (" Enter money given to Saurav & Sajal  
 should be : ");  
 Point f (" In Saurav = %d \n Sajal = %d " , sv , sj );

return 0 ; }  
 Enter money given to Saurav  
 and Sajal respectively  
 = 500 - 1000  
 Money given to Saurav & Sajal  
 Should be :;  
 Saurav = 1000  
 Sajal = 500

Ans 27] First write value of a & b  
 So a , b → are two values that why  
 Point f will return 2  
 a / P → 2

Ans 28] " C %d . %d . Placement "

(c)  $(5164 \cdot 12)_{10}$

$$\begin{array}{r} 5164 \\ \times 12 \\ \hline 10328 \end{array}$$

• 12  $\times$  16 = 192      1  
• 92  $\times$  16 = 1472      14 E  
• 72  $\times$  16 = 1152      11 B  
• 52  $\times$  16 = 832      8  
• 32  $\times$  16 = 512      5  
• 12  $\times$  16 = 192      1

Ans  $(14\cancel{0}2C \cdot 1E851)_{16}$

(d)

$$(23 \cdot 65)_{10}$$

0.65  $\times$  5 = 3.25      3  
• 25  $\times$  5 = 1.25      1

$$\begin{array}{r} 23 \\ \times 5 \\ \hline 115 \end{array}$$

$(043 \cdot 3111)_{15}$

(e)  $(772)_{10} \rightarrow$

$$\begin{array}{r} 772 \\ \times 7 \\ \hline 5152 \end{array}$$

$$(32)_8 = (101)_A$$

$$3 \times 8^1 + 2 \times 8^0 = A^2 + 0 \times A + A^0$$

$$24 + 2 = A^2 + 1$$

$$\boxed{A = 5}$$

Ans 50]  $(DB56 \cdot CD4)_{16}$

15 11    12 13

$$0(\underline{110} \underline{110} \underline{110} \underline{110} \cdot \underline{110} \underline{110} \underline{110})_2$$

$$(1555 \cdot 26 \cdot 6324)_8$$

$$(1) \cdot (31231112 \cdot 30311)_4$$

(a)  $(365 \cdot 55)_{10} \rightarrow (101101101 \cdot 100011001)_2$

~~Ans 48~~  
Ans 48

2	365	1	5	1	10	1
2	187	0	2	2	0	0
2	91	1	1	1		
2	45	1				
2	22	0				
2	11	1				

$\cdot 55 \times 2 = 1 \cdot 10 \quad 1$

$\cdot 10 \times 2 = 0 \cdot 2 \quad 0$

$\cdot 2 \times 2 = 0 \cdot 4 \quad 0$

$0 \cdot 4 \times 2 = 0 \cdot 8 \quad 0$

$0 \cdot 8 \times 2 = 1 \cdot 6 \quad 1$

$0 \cdot 6 \times 2 = 1 \cdot 2 \quad 1$

$0 \cdot 2 \times 2 = 0 \cdot 4 \quad 0$

$0 \cdot 4 \times 2 = 0 \cdot 8 \quad 0$

Ans 9]  $\#include <stdio.h>$  [ 9419822010  
int main () [ 9419822010  
{  
    long int mobile;  
    Scanf ("%.d", &mobile);  
    Pointf ("%ld", mobile);  
    return 0;  
}

Ans 10]  $\#include <stdio.h>$  [ 46800  
 $\#include <math.h>$   
int main ()  
{

    long int A, B;  
    A = 30000 + (0.2 \* 30000);  
    B = A + (0.3 \* A);  
    Pointf ("%ld", B);  
    return 0;  
}

Ans 11]  $\#include <stdio.h>$  [ d  
int main ()  
{  
    char x;  
    Scanf ("%c", &x);  
    Pointf ("%c", x);  
    return 0;  
}

Ans 12]  $\#include <stdio.h>$  [ Ascu value is : 100  
int main ()  
{  
    char x;  
    Scanf ("%c", &x);  
    Pointf ("%c", x);  
    return 0;  
}

# C Programming assignment

Ans 1 ] # include < stdio.h >

```
int main()
```

```
{
```

```
float a, b, c;
```

~~scanf("%f %f %f", &a, &b, &c);~~

Point f ("Enter the value of Product : ");  
Scanf ("%f", &a);

Point f ("Enter the sales tax :- ");  
Scanf ("%f", &b);

Point f ("Enter the sales tax : ");  
Scanf ("%f", &c);  
$$C = a + (b * a / 100);$$

Point f ("Total cost of Product is : %.f", C);  
return 0;

}

Enter the value of Product  
= 10

Enter the Sales tax = 10

Total Cost of Product is =

= 11.000000