ASSIGNMENT C-PROGRAMING
GLA-UNIVERSITY
SECTION - G Yatin Sisodia

```
// Q1. Hello, World! Program

#include<stdio.h>
void main()
{

 printf("Hello,World!");

}
```

```
// Q2. C Program to Print an Integer (Entered by the User)

#include<stdio.h>
void main()
{
 int x;

 printf("Enter integer: ");
 scanf("%d",&x);
 printf("Integer: %d",x);

}
```

```
// Q3. C Program to Add Two Integers.

#include<stdio.h>
void main()
{
 int a,b,sum;
 printf("\nEnter 1st no.= ");
```

```
 scanf("%d",&a);
 printf("\nEnter 2nd no.= ");
 scanf("%d",&b);
 sum=a+b;
 printf("\n\nSum of %d and %d = %d",a,b,sum);
}
```

//Q4. C Program to Multiply Two Floating-Point Numbers.

```
#include<stdio.h>
void main()
{
 float a,b,m;
 printf("\nEnter 1st no.= ");
 scanf("%f",&a);
 printf("\nEnter 2nd no.= ");
 scanf("%f",&b);
 m=a*b;
 printf("\n\nMultiplication of %f and %f = %f",a,b,m);
}
```

// Q5. C Program to Find ASCII Value of a Character.

```
#include<stdio.h>
void main()
{
 char ch;
 printf("Enter the character: ");
 scanf("%c",&ch);
 printf("ASCII value of %c = %d",ch,ch);
}
```

// Q6. C Program to Compute Quotient and Remainder.

```
#include<stdio.h>
void main()
{
  int x,y,q,r;

  printf("Enter Divisor: ");
  scanf("%d",&x);
  printf("\nEnter Dividend: ");
  scanf("%d",&y);

   q = y / x;
   r = y % x;

   printf("\nQuotient: %d",q);
   printf("\nRemainder: %d",r);
}
```

// Q7. C Program to Find the Size of int, float, double and char.

```
#include<stdio.h>
void main()
{
 int a,b,c,d;

 a=sizeof(int);
 b=sizeof(float);
 c=sizeof(double);
 d=sizeof(char);

 printf("\nSizeof(int): %d",a);
 printf("\nSizeof(float): %d",b);
 printf("\nSizeof(double): %d",c);
 printf("\nSizeof(char): %d",d);
}
```

// Q8. C Program to Demonstrate the Working of Keyword long.

```
#include<stdio.h>
void main()
{
 long l;
 printf("Enter the value: ");
 scanf("%ld",&l);
 printf("Value: %ldt",l);
}
```

// Q9. C Program to Swap Two Numbers.

```
#include<stdio.h>
void main()
{
 float x,y;

 printf("\nEnter 1st value: ");
 scanf("%f",&x);
 printf("\nEnter 2nd value: ");
 scanf("%f",&y);
 printf("\nOriginal value: \nx = %f \ny = %f",x,y);

 x=x+y;
 y=x-y;
 x=x-y;

 printf("\nValue after swap: \nx = %f \ny = %f",x,y);
}
```

// Q10. C Program to solve area of square.

```
#include<stdio.h>
void main()
{
```

```
 float s,a;

 printf("\nEnter side of a square: ");
 scanf("%f",&s);

 a = s * s;

 printf("Area of a square: %f",a);
}
```

// Q11. C Program to find area of triangle using herons formula.

```
#include<stdio.h>
#include<math.h>
void main()
{
 float s,a,b,c,A;

 printf("\nEnter 1st side: ");
 scanf("%f",&a);
 printf("\nEnter 2nd side: ");
 scanf("%f",&b);
 printf("\nEnter 3thd side: ");
 scanf("%f",&c);

 s=(a+b+c)/2;
 A=sqrt(s*(s-a)*(s-b)*(s-c));
 printf("\nArea of a triangle : %f",A);
}
```

//Q12. C program to find area of trapezium.

```
#include<stdio.h>
void main()
{
 float b1,b2,h,a;
```

```
 printf("\nEnter base 1 of a trapezium: ");
 scanf("%f",&b1);
 printf("\nEnter base 2 of a trapezium: ");
 scanf("%f",&b2);
 printf("\nEnter height of a trapezium: ");
 scanf("%f",&h);

 a = h*(b1+b2)/2;

 printf("Area of a trapezium: %f",a);
}
```

// Q13. C program to find volume of sphere.

```
#include<stdio.h>
void main()
{
 float r,v;
 printf("\nEnter radius of a sphere: ");
 scanf("%f",&r);

 v=4*3.14*r*r*r/3;

 printf("\n Volume of a sphere: %f",v);
}
```

// Q14. Write a C program to perform input/output of all basic data types.

```
#include<stdio.h>
void main()
{
 int i;
 char ch;
 double d;
 float f;

 printf("Use of basic data types:");
```

```
 printf("\nEnter value(char): ");
 scanf("%c",&ch);
 printf("\nEnter value(int): ");
 scanf("%d",&i);
 printf("\nEnter value(double): ");
 scanf("%lf",&d);
 printf("\nEnter value(float): ");
 scanf("%f",&f);

 printf("\nValue(int): %d",i);
 printf("\nValue(char): %c",ch);
 printf("\nValue(double): %lf",d);
 printf("\nValue(float): %f",f);
}
```

// Q15. Write a C program to enter two numbers and find their sum.

```
#include<stdio.h>
void main()
{
 float a,b,sum;
 printf("\nEnter 1st no.= ");
 scanf("%f",&a);
 printf("\nEnter 2nd no.= ");
 scanf("%f",&b);
 sum=a+b;
 printf("\n\nSum of %f and %f = %f",a,b,sum);
}
```

// Q16. Write a C program to enter two numbers and perform all arithmetic operations

```
#include<stdio.h>
void main()
{
 int x1,x2,a,b,c,d,e;
```

```
 printf("\nEnter 1st number: ");
 scanf("%d",&x1);
 printf("\nEnter 2nd number: ");
 scanf("%d",&x2);

 a = x1+x2;
 b = x1-x2;
 c = x1*x2;
 d = x1/x2;
 e = x1%x2;

 printf("\nArithmetic Operations \n %d + %d = %d \n %d - %d = %d \n %d * %d = %d \n %d / %d =
%d \n %d %% %d = %d",x1,x2,a,x1,x2,b,x1,x2,c,x1,x2,d,x1,x2,e);
}
```

// Q17. Write a C program to enter length and breadth of a rectangle and find its perimeter.

```
#include<stdio.h>
void main()
{
 float l,b,p;

 printf("\nEnter the length of a reactangle: ");
 scanf("%f",&l);
 printf("\nEnter the breadth of a reactangle: ");
 scanf("%f",&b);

 p = 2*(l + b);

 printf("\nPerimeter of a rectangle: %f",p);
}
```

// Q18. Write a C program to enter length and breadth of a rectangle and find its area.

```
#include<stdio.h>
void main()
```

```
{
 float l,b,a;

 printf("\nEnter the length of a reactangle: ");
 scanf("%f",&l);
 printf("\nEnter the breadth of a reactangle: ");
 scanf("%f",&b);

 a = l * b;

 printf("\nArea of a rectangle: %f",a);
}
```

/* Q19. Write a C program to enter radius of a circle and find its diameter, circumference and area. */

```
#include<stdio.h>
void main()
{
 float r,d,circum,area;

 printf("\nEnter the radius of a circle: ");
 scanf("%f",&r);

 d=2*r;
 circum=2*3.14*r;
 area=3.14*r*r;

 printf("\nDiameter of a circle: %f",d);
 printf("\nCircumference of a circle: %f",circum);
 printf("\nArea of a circle: %f",area);
}
```

/* Q20. Write a C program to enter length in centimeter and convert it into meter and kilometer. */

```
#include<stdio.h>
void main()
{
 float cm,m,km;

 printf("\nEnter the value(centimeters): ");
 scanf("%f",&cm);

 m=cm/100;
 km=cm/100000;

 printf("\nValue in meters: %f",m);
 printf("\nValue in kilometers: %f",km);
}
```

// Q21. Write a C program to enter temperature in Celsius and convert it into Fahrenheit.

```
#include<stdio.h>
void main()
{
 float f,c;

 printf("Enter the temperature in celsius: ");
 scanf("%f",&c);

 f = (c*9/5)+32;

 printf("Temperature in fahrenheit: %f",f);
}
```

// Q22. Write a C program to enter temperature in Fahrenheit and convert to Celsius

```
#include<stdio.h>
void main()
{
 float f,c;
```

```
 printf("Enter the temperature in fahrenheit: ");
 scanf("%f",&f);

 c = (f-32)*5/9;

 printf("Temperature in celsius: %f",c);
}
```

```
// Q23. Write a C program to convert days into years, weeks and days.

#include<stdio.h>
void main()
{

 int x,b,y,d,w;

 printf("Enter the days: ");
 scanf("%d",&x);

 y=x / 365;
 b=x % 365;
 w=b / 7;
 d=b % 7;

 printf("\nConversion of %d days in (Year,Weeks,Days): %d years %d weeks %d days",x,y,w,d);

}
```