BCA-105: Fundamentals of Programming Language C (Practical)

1. Write a c program to display “hello computer” on the screen.

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

void main()
{
    clrscr();

    printf("Hello Computer");

    getch();
}
```

Output :

```
Hello Computer
```

2. Write a c program to print roll no, name, address.

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

void main()
{
    printf("Roll No = 11 \n");
    printf("Name = Idar \n");
    printf("Address = INSB BCA College, Idar");
}
```

```
Rollno = 11
Name = Idar
Address = INSB BCA College, Idar
```

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3. write a C program to find area of circle using the formula Area = PI * r * r.

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

void main()
{
    float pi = 3.14;
    int r = 5;
    float area;

    printf("Enter the value of r : ");
    scanf("%d", &r);

    area = pi * r * r;

    printf("Area : %.1f", area);

    getch();
}
```

```
Enter the value of r : 5
AREA=78.500000
```

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4. Write a C program to find the area of rectangle, cube and triangle.(Formula are: Rectangle=l *b*h, triangle = (l * b)* 0.5, cube = L*L*L.

```c
#include <stdio.h>
#include <conio.h>
void main()
{
    int rectangle;
    int cube;
    float triangle;

    int length = 25, breadth = 5, height = 4;
    clrscr();
    rectangle = length * breadth;
    cube = length * length * length;
    triangle = (length * breadth) * 0.5;

    printf("\n Rectangle :%d ", rectangle);
    printf("\n Cube : %d", cube);
    printf("\n Triangle : %.2f \n", triangle);
    getch();
}
```

```
Enter the Value of l : 5

Enter the of b : 3

Enter the value of h : 2

Rectangle :30
Cube : 125
Triangle : 7.500000
```

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5. Write a C program to find the area and volume of the sphere. Formulas are Area = 4*PI*R*R Volume = 4/3 * PI * R * R * R.

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

void main()
{
    float pi = 3.14;
    float area, vol;
    int r;
    clrscr();

    printf("\nENTER THE VALUE OF r : ");
    scanf("%d", &r);
    area = 4 * pi * r * r;
    vol = 4 / 3 * pi * r * r * r;
    printf("\nAREA : %f", area);
    printf("\nVOLUME : %f", vol);
    getch();
}
```

```
ENTER THE VALUE OF r : 5

AREA : 314.000000
VOLUME : 392.500000
```

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6. Write a C program to evaluate simple interest I = P * R * N / 100.

```
#include <stdio.h>
#include <conio.h>
void main()
{
    float p, r, n, i;

    clrscr();

    printf("Enter p : ");
    scanf("%f", &p);

    printf("Enter r : ");
    scanf("%f", &r);

    printf("Enter n : ");
    scanf("%f", &n);

    i = p * r * n / 100;

    printf("Interest : %.2f", i);
    getch();
}
```

```
Enter p : 100
Enter r : 6
Enter n : 3
Intrest :  18.000000
```

7. Write a C program to enter a distance into K.M and convert it into meter, feet, inches and Centimeter.

```
#include <stdio.h>
#include <conio.h>
void main()
{
    long int km, f, m, cm;
    float i;
    clrscr();
    printf("\nEnter Kilometer : ");
    scanf("%ld", &km);

    m = km * 1000;
    f = km * 32748;
    i = km * 3448.38;
    cm = km * 100000;

    printf("\n Meter : %ld", m);
    printf("\n Feet : %ld", f);
    printf("\n Inch :%f", i);
    printf("\n Centimeter= %ld", cm);
}
```

```
Enter Kilometer : 2

 Meter : 2000
 Feet : 65496
 Inch :6896.759766
 Centimeter= 200000
```

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8. Write a C program to interchange two numbers.

```
#include <stdio.h>
#include <conio.h>
void main()
{
    int n1, n2, t;
    clrscr();
    printf("\nEnter n1 : ");
    scanf("%d", &n1);

    printf("\nEnter n2 : ");
    scanf("%d", &n2);
    t = n1;
    n1 = n2;
    n2 = t;
    printf("\nNew n1 : %d \n", n1);
    printf("New n2 : %d \n", n2);
}
```

```
Enter n1 : 10

Enter n2 : 20

New n1 : 20
New n2 : 10
```

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9. Write a C program to convert Fahrenheit into centigrade.

```c
#include <stdio.h>
#include <conio.h>
void main()
{
    int f;
    float c;
    clrscr();
    printf("\nEnter the value of f : ");
    scanf("%d", &f);

    c = (f - 32) / 1.8;
    printf("\nCentigrade : %f", c);
}
```

```
Enter the value of f : 50

Centigrade : 10.000000
```

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10. Write a C program for summation, subtraction, multiplication, division of two numbers using Arithmetic operator.

```c
#include <stdio.h>
#include <conio.h>
void main()
{
    int n1, n2, add, sub, multiply;
    float d;

    clrscr();

    printf("\nEnter n1:");
    scanf("%d", &n1);

    printf("\nEnter n2:");
    scanf("%d", &n2);

    add = n1 + n2;
    sub = n1 - n2;
    multiply = n1 * n2;
    d = n1 / (float)n2;

    printf("\nAddition : %d", add);
    printf("\nSubtraction : %d", sub);
    printf("\nMultiplication : %d", multiply);
    printf("\nDivision : %f", d);

    getch();
}
```

```
Enter n1:10

Enter n2:2

Addition : 12
Subtraction : 8
Multiplication : 20
Division : 5.000000
```