

Programming In C Lab File

Subject Code: 16BCA1C05L Class: I Year I Semester (BCA)

Experiments No.: 1 to 6

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Experiment 01:

C program to display Your Name, Address and City in different lines.

Code:

```
#include<stdio.h>
int main()
{
  printf("\n C program to display Your Name:
  Address and City in different lines. - By
  Suman Garai \n");
  printf("\n Name: Jain University");
  printf("\n Address: Jayanagar");
  printf("\n City: Bengaluru \n");
  return O;
}
```

```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

c:\Users\HOME\Desktop>cd "c:\Users\HOME\Desktop\" && g++ cppprogram.cpp -o cppprogram && "c:\Users\HOME\Desktop\"cppprogram

C program to display Your Name, Address and City in different lines. - By Suman Garai

Name: Jain University
Address: Jayanagar
City: Bengaluru

c:\Users\HOME\Desktop>[
```

Experiment 02:

C program to find the area and circumference of a circle.

Code:

```
#include<stdio.h>
int main()
{
  printf(" C program to find the area and circumference of acircle. - BY Suman Garai");
  int r;
  float a.c;
  printf("\n Enter the radius: ");
  scanf("%d", &r);
  a = ( 3.14 * r * r );
  c = ( 2 * 3.14 * r );
  printf("\n Area of the Circle: %f", a);
  printf("\n Circumference of the Circle: %f
  \n", c);
  return 0;
}
```

```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

c:\Users\HOME\Desktop>cd "c:\Users\HOME\Desktop\" && g++ cppprogram.cpp -o cppprogram && "c:\Users\HOME\Desktop\"cppprogram C program to find the area and circumference of acircle. - BY Suman Garai Enter the radius: 5

Area of the Circle: 78.500000

Circumference of the Circle: 31.400000

c:\Users\HOME\Desktop>
```

Experiment 03:

C program to convert centigrade into Fahrenheit. Formula: F= (1.8 * C) +32.

Code:

```
#include<stdio.h>
int main()
{
  printf("\n C program to convert centigrade into
  Fahrenheit Formula: F= (1.8 * C) +32 -By Suman
  Garai");
  int c;
  float f;
  printf("\n Enter The Temperature in Celsius:
   ");
  scanf("%d", &c);
  f = (1.8 * c) + 32;
  printf("\n Temperature in Farenheit: %g \n",
  f);
  return 0;
}
```

```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

C:\Users\HOME\Desktop>cd "c:\Users\HOME\Desktop\" && g++ cppprogram.cpp -o cppprogram && "c:\Users\HOME\Desktop\"cppprogram

C program to convert centigrade into Fahrenheit Formula: F= (1.8 * C) +32 -By Suman Garai

Enter The Temperature in Celsius: 32

Temperature in Farenheit: 89.6

c:\Users\HOME\Desktop>
```

Experiment 04a:

C program to swap variable values of two variables using a temporary variable.

Code:

```
#include<stdio.h>
int main()
{
  int a   b   ci
  printf("\n C program to swap variable values of
  two variables using a temporary variable. -By
  Suman Garai");
  printf("\n Enter the values of a & b: ");
  scanf("%d,%d", &a,&b);
  c = a;
  a = b;
  b = c;
  printf("\n Value of A: %d", a);
  printf("\n Value of B: %d \n", b);
  return O;
}
```

```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

c:\Users\HOME\Desktop>cd "c:\Users\HOME\Desktop\" && g++ cppprogram.cpp -o cppprogram && "c:\Users\HOME\Desktop\"cppprogram

C program to swap variable values of two variables using a temporary variable. -By Suman Garai

Enter the values of a & b: 7,4

Value of A: 4
Value of B: 7

c:\Users\HOME\Desktop>
```

Experiment 04b:

C program to swap variable values of two variables without using a temporary variable

Code:

```
#include<stdio.h>
int main()
{
  int a b i
  printf("\n C program to swap variable values of two
  variables without using a temporary variable. -By
  Suman Garai");
  printf("\n Enter the values of a & b: ");
  scanf("%d,%d", &a,&b);
  printf("\n Value of A: %d", b);
  printf("\n Value of B: %d \n", a);
  return 0;
}
```

```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

C:\Users\HOME\Desktop>cd "c:\Users\HOME\Desktop\" && g++ cppprogram.cpp -o cppprogram && "c:\Users\HOME\Desktop\"cppprogram

C program to swap variable values of two variables without using a temporary variable. -By Suman Garai

Enter the values of a & b: 7,4

Value of A: 4
Value of B: 7

c:\Users\HOME\Desktop>
```

Experiment 05:

C program to calculate the total salary of an employee given Allowance1 is 33% of Basic Pay, Allowance2 is 73% of Basic Pay and Deduction is 52% of Basic Pay.

Code:

```
#include<stdio.h>
int main()
{
  int bs;
  double ts;
  printf("\n C program to calculate the total salary
  of an employee given Allowancel is 0.33 of Basic
  Pay, Allowance is 0.73 of Basic Pay and Deduction
  is 0.52 of Basic Pay. -By Suman Garai");
  printf("\n Enter the Basic Salary of an Employee:
  ");
  scanf("%d", &bs);
  ts = bs + 0.33 * bs + 0.73 * bs - 0.52 * bs;
  printf("\n The Total Salary of An Employee: %f \n",
  ts);
  return 0;
}
```



Experiment 06:

C program to Calculate Simple Interest.

Code:

```
#include<stdio.h>
int main()
 int pr rr ti
 double sia
printf("\n C program to Calculate Simple
 Interest. -By Suman Garai");
 printf("\n Enter the Value of Principle: ");
 scanf("%d", &p);
 printf(" Enter the Value of Rate: ");
 scanf("%d", &r);
 printf(" Enter the Value of Time: ");
 scanf("%d", &t);
 si = (p * r * t) / 100;
printf("\n The Value of Simple Interest: %f
 \n", si);
return Di
}
```

```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

c:\Users\HOME\Desktop>cd "c:\Users\HOME\Desktop\" && g++ cppprogram.cpp -o cppprogram && "c:\Users\HOME\Desktop\"cppprogram

C program to Calculate Simple Interest. -By Suman Garai
Enter the Value of Principle: 50000
Enter the Value of Rate: 13
Enter the Value of Time: 7

The Value of Simple Interest: 45500.0000000

c:\Users\HOME\Desktop>
```

