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Subject: Introduction to Computers Programming with C

Subject Code: 102000110

Temporary I.D: 20CE179

Class: CE-3



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★ Practical 1 :-

- Q. Write a C program to understand concepts of structure of C program, scanf and printf. (W.A.P. to read a no. from keyboard & display its value on the screen).

\* Program software code :-

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

```
int main()
```

```
{
```

```
    int a, b;
```

```
    printf("Enter The Value of a and b :");
```

```
    // Read and Store Inputs
```

```
    scanf("%d %d", &a, &b);
```

```
    // Display Outputs
```

```
    printf("Your Value Of The a=%d and b=%d", a, b);
```

```
}
```



## Output:-

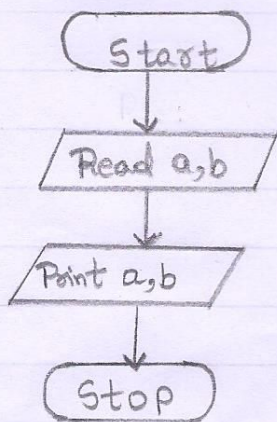
20CE179 (2)

Enter The Value of a and b: 53

2002

Your Value Of The a=53 and b=2002

## Flow charts:-



## Algorithm:-

Step 1: Input two numbers : a, b

Step 2: Print a, b

Step 3: Stop



practical 1.cii)

Write a C program to declare, assign & print values of variables of diff. data types.  
(W.A.P to calculate the area of circle where take radius as integer).

\* Code:-

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

```
int main()
```

```
{
```

```
    int Radius;
```

```
    float Area;
```

```
    printf("Enter The Value Of Radius :");
```

```
    scanf("%d", &Radius);
```

```
    Area = 3.14 * Radius * Radius;
```

```
    printf("The Area Of The Circle Is : %.2f", Area);
```

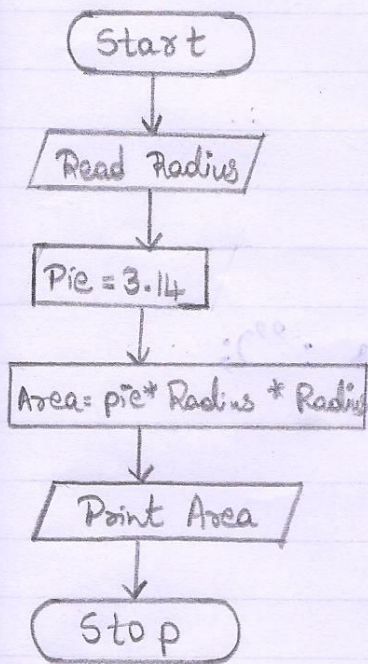
```
}
```



Output:-

Enter The Value Of Radius : 53

The Area Of The Circle Is : 8820.26

Flowcharts:-Algorithms:-

Step 1: Input Radius

Step 2: Calculate  $\text{pie} = 3.14$

Step 3: Calculate  $\text{Area} = \text{pie} * \text{Radius} * \text{Radius}$

Step 4: Print Area

Step 5: Stop



Actual 1: C++

Write a program that performs as calculator (Addition, multiplication, division, subtraction).

\*

Code:-

#include &lt;stdio.h&gt;

int main ()

{

float a,b;

printf ("Enter The Values Of a and b \n");

scanf ("%f%f", &amp;a, &amp;b);

printf ("Addition is : %.2f + %.2f = %.2f\n", a, b, a+b);

printf ("Subtraction is : %.2f - %.2f = %.2f\n", a, b, a-b);

printf ("Multiplication is : %.2f \* %.2f = %.2f\n", a, b, a\*b);

printf ("Division is : %.2f / %.2f = %.2f\n", a, b, a/b);

}

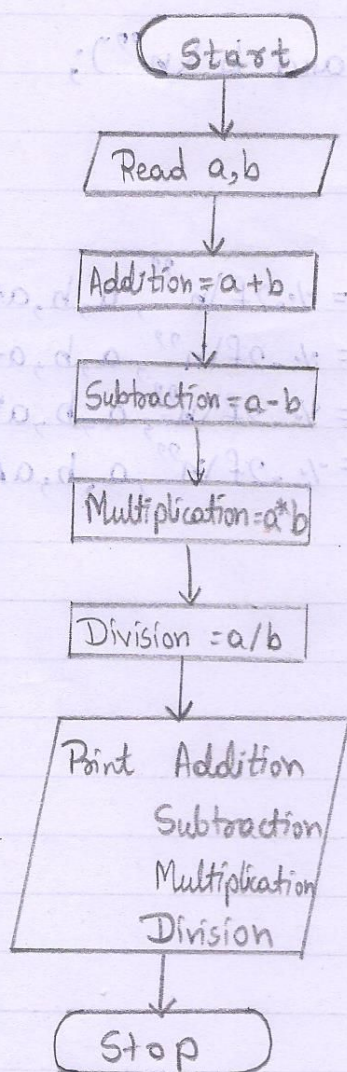


Output:-

Enter The Value Of a and b

5253

2002

Addition is :  $5253.00 + 2002.00 = 7255.00$ Subtraction is :  $5253.00 - 2002.00 = 3251.00$ Multiplication is :  $5253.00 * 2002.00 = 10516506.00$ Division is :  $5253.00 / 2002.00 = 2.62$ Flowcharts:-Algorithms:-

Step 1: Input a, b

Step 2: Calculate Addition = a + b

Step 3: Calculate Subtraction = a - b

Step 4: Calculate Multiplication = a \* b

Step 5: Calculate Division = a / b

Step 6: Print Addition  
Subtraction  
Multiplication  
Division

Step 7: Stop