**Procedural Programming Assignment No. 2A**

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**Aim:** To write a C Program to input from user for different data types available in C language.

**Algorithm:**

**Step1:** start

**Step2:** declare

* Integers: p, g
* Floats: a, b
* Long integers: c, d
* Doubles: e, f

**Step3:**input

* Prompt the user to enter two integers
* Read integers p and g
* Prompt the user to enter two float numbers
* Read floats a and b
* Prompt the user to enter two long integers
* Read longs c and d
* Prompt the user to enter two double values
* Read doubles e and f

**Step 4:** process

* Prompt the user to enter two integers
* Read integers p and g
* Prompt the user to enter two float numbers
* Read floats a and b
* Prompt the user to enter two long integers
* Read longs c and d
* Prompt the user to enter two double values
* Read doubles e and f

**Step 5:** output

* Display the sum of two integers
* Display the difference of two float numbers
* Display the product of two long integers
* Display the difference of two double values **Step 6:** END

**PSEUDOCODE:**

BEGIN

DECLARE p, g AS INTEGER

DECLARE a, b AS FLOAT

DECLARE c, d AS LONG

DECLARE e, f AS DOUBLE

PRINT "Enter two integers:"

INPUT p, g

PRINT "Sum of two integers:", p + g

PRINT "Enter two float numbers:"

INPUT a, b

PRINT "Difference of two float numbers:", a - b

PRINT "Enter two long integers:"

INPUT c, d

PRINT "Product of two long integers:", c \* d

PRINT "Enter two double values:"

INPUT e, f

PRINT "Difference of two double values:", e - f

END

**CODE:**

int main()

{

int p,g;//%d decimal addition float a,b;//%f fractional product char y,z;//%c charcaters long c,d;//%ld division double e,f;//%lf subraction printf("enter two integers"); scanf("%d %d",&p,&g); printf("sum of two integers:%d\n",p+g);

printf("enter two any float nos"); scanf("%f %f",&a,&b); printf("difference of two any float nos:%f\n",a-b);

printf("enter two float nos"); scanf("%ld %ld",&c,&d); printf("product of two float nos:%ld\n",c\*d);

printf("enter two float nos"); scanf("%lf %lf",&e,&f); printf("product of two float nos:%lf\n",e-f ); return 0;

}

**Output:**

A computer screen with white text

Description automatically generated