

EXPERIMENT 1

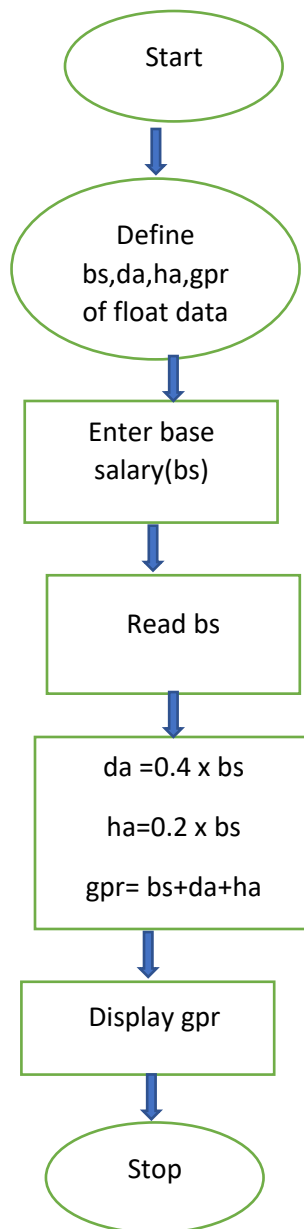
Problem:

Ramesh's basic salary is input through the keyboard. His dearness allowance is 40% of basic salary and house rent allowance is 20% of basic salary. Write an algorithm, flowchart and program to calculate his gross salary.

ALGORITHM:

1. Start
2. Declare four float (fractional value) bs, da, ha, gpr.
3. Define value of bs.
4. Calculate value of da,ha using bs.
5. Add values of bs,da,ha.
6. Store the sum or output into gpr.
7. Print gpr.
8. Stop

Flowchart-



CODE:

```
/*Calculating Gross salary of Ramesh Date 05-01-2022*/
```

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

```
int main()
```

```
{
```

```
    float bs,da,ha,gpr;
```

```
    printf("Enter base salary of Ramesh\n");
```

```
    scanf("%f",&bs);
```

```
    da=0.4*bs;
```

```
    ha=0.2*bs;
```

```
    gpr=bs+da+ha;
```

```
    printf("basic salary of Ramesh=%f\n",bs);
```

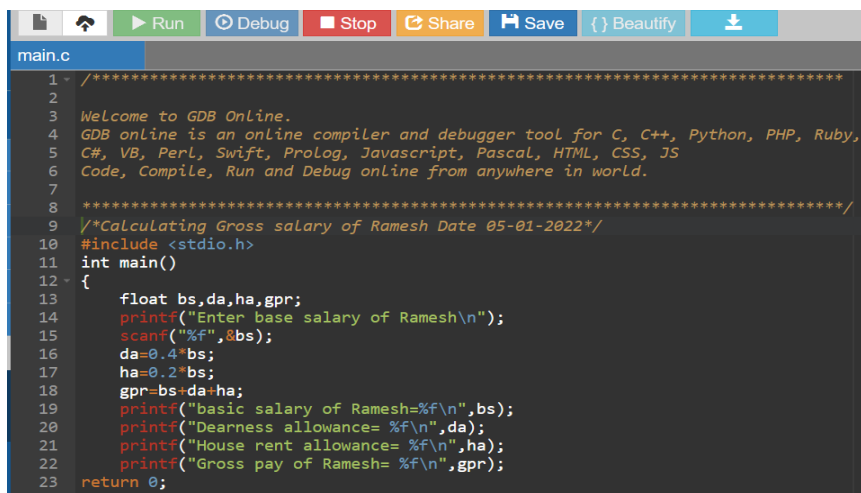
```
    printf("Dearness allowance= %f\n",da);
```

```
    printf("House rent allowance= %f\n",ha);
```

```
    printf("Gross pay of Ramesh= %f\n",gpr);
```

```
return 0;
```

```
}
```



The screenshot shows a code editor window titled 'main.c'. The editor has a toolbar at the top with icons for file operations, running, debugging, stopping, sharing, saving, and beautifying. The code is as follows:

```
1 - /******  
2  
3 Welcome to GDB Online.  
4 GDB online is an online compiler and debugger tool for C, C++, Python, PHP, Ruby,  
5 C#, VB, Perl, Swift, Prolog, Javascript, Pascal, HTML, CSS, JS  
6 Code, Compile, Run and Debug online from anywhere in world.  
7  
8 *****/  
9 /*Calculating Gross salary of Ramesh Date 05-01-2022*/  
10 #include <stdio.h>  
11 int main()  
12 {  
13     float bs,da,ha,gpr;  
14     printf("Enter base salary of Ramesh\n");  
15     scanf("%f",&bs);  
16     da=0.4*bs;  
17     ha=0.2*bs;  
18     gpr=bs+da+ha;  
19     printf("basic salary of Ramesh=%f\n",bs);  
20     printf("Dearness allowance= %f\n",da);  
21     printf("House rent allowance= %f\n",ha);  
22     printf("Gross pay of Ramesh= %f\n",gpr);  
23     return 0;  
24 }
```

Result-

SAMPLE 1-

Enter base salary of Ramesh

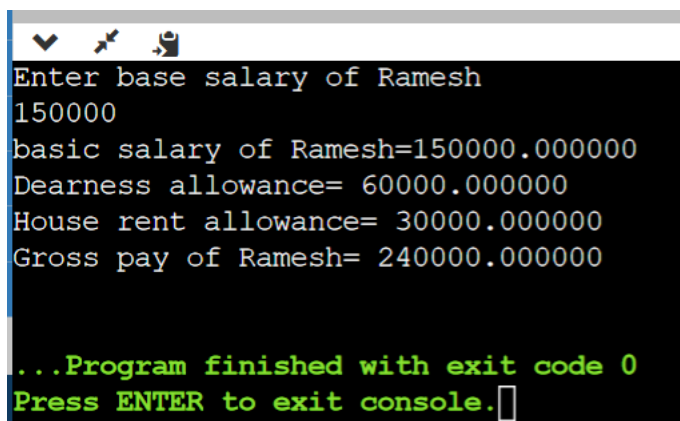
150000

basic salary of Ramesh=150000

Dearness allowance= 60000

House rent allowance= 30000

Gross pay of Ramesh= 240000



```
Enter base salary of Ramesh
150000
basic salary of Ramesh=150000.000000
Dearness allowance= 60000.000000
House rent allowance= 30000.000000
Gross pay of Ramesh= 240000.000000

...Program finished with exit code 0
Press ENTER to exit console.
```