



Practice Programs

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Program 1: Write a C program to print the following text message each time it is run.
'To C, or not to C: that is the question.'

pun.c :

```
1  #include <stdio.h>
2
3  int main(void) {
4      printf("To C, or not to C: that is the question.\n");
5      return 0;
6  }
```

Program 2: Write a C program to demonstrate simple arithmetic.

simpleArithmetic.c

```
1  #include<stdio.h>
2
3  int main(){
4      int a, b, c;
5
6      printf("Please enter two numbers : ");
7      scanf("%d %d", &a, &b); //ok
8
9      c = a + b; //addition
10     printf("The Sum is %d\n", c);
11
12     c = a - b; //subtraction
13     printf("The Difference is %d\n", c);
14
15     c = a * b; //multiplication
16     printf("The Product is %d\n", c);
17
18     c = a / b;
19     printf("The Division is %d\n", c);
20     return 0;
21 }
```

Program 3: Write a C program to calculate Simple Interest.**simpleInterestCalculator.c**

```

1  #include<stdio.h>
2
3  int main(){
4      int numberOfYears;
5      float principleAmount, rateOfInterest, simpleInterest;
6
7      printf("Enter Principle Amount\n", principleAmount);
8      scanf("%f", &principleAmount);
9      printf("Enter number of year\n", numberOfYears);
10     scanf("%d", &numberOfYears);
11     printf("Enter Rate of Interest\n", rateOfInterest);
12     scanf("%f", &rateOfInterest);
13
14     simpleInterest = (principleAmount * numberOfYears * rateOfInterest) / 100;
15     printf("Simple interest is %f\n", simpleInterest);
16
17     return 0;
18 }
19

```

Program 4: Write a C program to calculate Simple EMI.**simpleEMICalculator.c**

```

1  #include <stdio.h>
2  #include <math.h>
3
4  int main() {
5      float principle, rate, time, emi;
6
7      printf("Enter principle amount: ");
8      scanf("%f", &principal);
9
10     printf("\nEnter rate of interest: ");
11     scanf("%f", &rate);
12
13     printf("\nEnter time in years: ");
14     scanf("%f", &time);
15
16     rate = rate / (12 * 100); /*one month interest*/
17     time = time * 12; /*one month period*/
18
19     emi= ( principal * rate * pow(1 + rate,time)) / (pow(1 + rate,time) - 1);
20
21     printf("Monthly EMI is= %f\n", emi);
22
23     return 0;
24 }
25

```

Program 5: Write a C program to calculate Student Percentage of 5 subjects

studentPercentageCalculator.c

```
1  #include<stdio.h>
2
3  int main() {
4      int a,b,c,d,e;
5      float total, average, percentage;
6
7      printf("Enter marks of 5 subjects : \n");
8      scanf("%d %d %d %d %d", &a, &b, &c, &d, &e);
9
10     total  = a + b + c + d + e;
11     average = total / 5;
12     percentage = (total / 500) * 100;
13
14     printf("Total marks = %f\n", total);
15     printf("Average marks = %f\n", average );
16     printf("Net percentage = %f\n", percentage);
17     return 0;
18 }
19
```

Program 6: