

PROGRAM-1

Aim/Objective: To write a program that accepts the marks of 5 subjects and find the sum & the % of marks obtained by the student.

Program code:

```
1 // Online C compiler to run C program online
2 #include <stdio.h>
3 int main()
4 {
5     int a1,a2, a3,a4,a5,a6;
6     float a7;
7     printf("enter marks of 5 subjects");
8     scanf("%d %d %d %d %d",&a1,&a2, &a3,&a4,&a5);
9     a6=a1+a2+a3+a4+a5;
10    a7=a6/5;
11    printf("the sum of marks is %d",a6);
12    printf("the percentage is %f",a7);
13    return 0;
14 }
```

Output:

```
enter marks of 5 subjects84
65
56
79
89
the sum of marks is 373the percentage is 74.000000

=== Code Execution Successful ===
```

PROGRAM-2

Aim/Objective: To write a program that calculate the SI & CI. The principle amount, rate of interest & time are entered through the keyboard.

Program code:

```
1 // Online C compiler to run C program online
2 #include <stdio.h>
3 #include <math.h>
4 int main()
5 {
6     int p,r,t;
7     float s,c;
8     printf("enter principal:");
9     scanf("%d",&p);
10    printf("enter rate:");
11    scanf("%d",&r);
12    printf("enter time:");
13    scanf("%d",&t);
14    s=p*r*t*0.01;
15    c=p*pow((1+(r*0.01)),t)-p;
16    printf("simple interest is:%f \ncompound interest is: %f",s,c);
17    return 0;
18 }
```

Output:

```
enter principal:24000
enter rate:12
enter time:5
simple interest is:14400.000000
compound interest is: 18296.201172
```

PROGRAM-3

Aim/Objective: To write a program to calculate the area and circumference of the circle.

Program code:

```
1 // Online C compiler to run C program online
2 #include <stdio.h>
3 #include <math.h>
4 int main()
5 {
6     int r;
7     float a,c;
8     printf("enter radius:");
9     scanf("%d",&r);
10    a=3.14*pow(r,2);
11    c=2*3.14*r;
12    printf("area is:%f \ncircumference is: %f",a,c);
13    return 0;
14 }
```

Output:

```
enter radius:12
area is:452.160004
circumference is: 75.360001

=== Code Execution Successful ===
```

PROGRAM-4

Aim/Objective: To write a program that accepts temperature in deg. Celsius & convert it into deg. Fahrenheit using the formula $C/5 = (F-32)/9$

Program code:

```
1 // Online C compiler to run C program online
2 #include <stdio.h>
3 #include <math.h>
4 int main()
5 {
6     int c;
7     float f;
8     printf("enter temperature in centigrade:");
9     scanf("%d",&c);
10    f=(c*9)/5+32;
11    printf("temperature in fahrenheit is:%f",f);
12    return 0;
13 }
```

Output:

```
enter temperature in centigrade:32
temperature in fahrenheit is:89.000000

=== Code Execution Successful ===
```

PROGRAM-5

Aim/Objective: To write a program that swap values of two variables using a third variable.

Program code:

```
2  #include <stdio.h>
3  #include <math.h>
4  int main()
5  {
6      int a,b,c;
7      printf("enter value of a and b:");
8      scanf("%d %d",&a,&b);
9      c=a;
10     a=b;
11     b=c;
12     printf("new value of a = %d and b=%d",a,b);
13     return 0;
14 }
```

Output:

```
enter value of a and b:24
56
new value of a = 56 and b=24

=== Code Execution Successful ===
```

PROGRAM-6