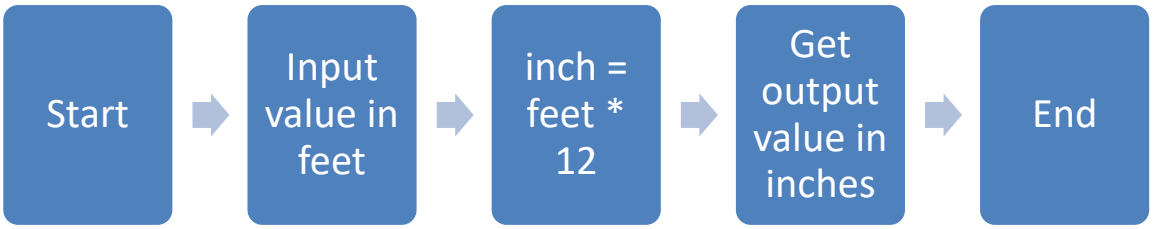
Program 1: Write a program to convert feet into inches.

ALGORITHM

1. The program must display a statement 'Enter a number to represent feet value' to get an input from the user.
2. Type in the number.
3. Use formula inch=feet*12 for conversion.
4. Answer gets displayed as the output.
5. The program is completed.

FLOWCHART



CODE

```
#include <stdio.h>

int main()

{

  float feet;
```

```
  printf("Enter a number to represent feet value");
  scanf("%f",&feet);
  double inch=12*feet;
  printf("Value in feet is %f", inch);
   return 0;
}
```

OUTPUT

Enter a number to represent feet value 5.3

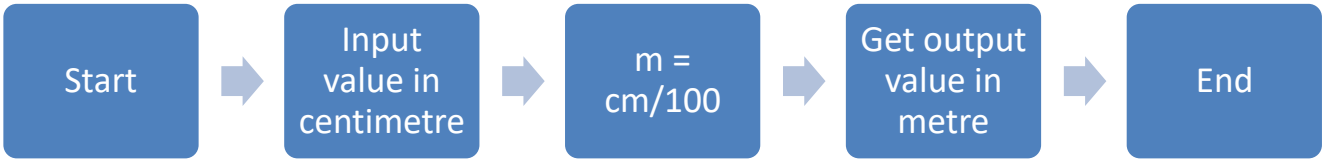
Value in inches is 63.600002

B) Write a program to convert centimeters into meters

ALGORITHM

1. The program must display a statement 'Enter a number to represent centimeter value' to get an input from the user.
2. Type in the number.
3. Use formula meter=centimeter/100 for conversion.
4. Answer gets displayed as the output.
5. The program is completed.

FLOWCHART



CODE

```
#include <stdio.h>

int main()

{

  float centimetre;

  printf("Enter a number to represent centimetre value");

  scanf("%f",&centimetre);

  double metre=centimetre/100;

  printf("Value in metres is %f", metre);

   return 0;

}
```

OUTPUT

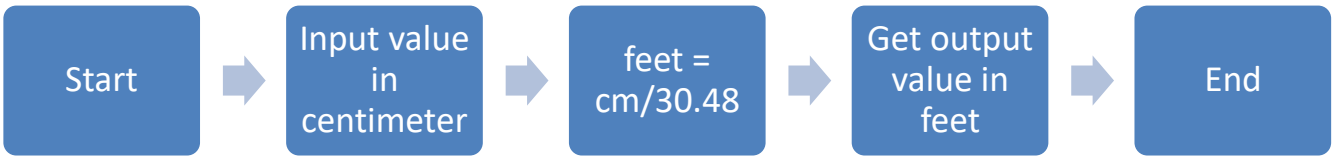
```
Enter a number to represent centimetre value 1000

Value in metres is 10.000000
```

C) Write a program to convert centimeter into feet

ALGORITHM

1. The program must display a statement ‘Enter a number to represent centimeter value’ to get an input from the user.
2. Type in the number.
3. Use formula feet=centimeter/30.48 for conversion.
4. Answer gets displayed as the output.
5. The program is completed.

FLOWCHART



CODE

```
#include <stdio.h>

int main()

{

  float centimetre;

  printf("Enter a number to represent centimetre value");
```

```
   scanf("%f",&centimetre);
   double feet=centimetre/30.48;
   printf("Value in feet is %f", feet);
    return 0;
}
```

OUTPUT

Enter a number to represent centimetre value 158

Value in feet is 5.183727