

Fundamentals

1. #include <stdio.h>

```
int main()
{
    printf("Name: Kavindu Gayashan\n");
    printf("School:Ananda Sastharaya,Mathugama\n");

}
```

2. #include <stdio.h>

```
int main()
{
    printf("*\n");
    printf("**\n");
    printf("***\n");
    printf("****\n");
    printf("*****\n");
}
```

3. #include <stdio.h>

```
int main() {

    int i;
    float f;
    double d;
    char c;
    printf("Enter an integer: ");
    scanf("%d", &i);
    printf("Enter a float: ");
    scanf("%f", &f);
    printf("Enter a double: ");
    scanf("%lf", &d);
    printf("Enter a character: ");
    scanf(" %c", &c);
    printf("Integer: %d\n", i);
    printf("Float: %f\n", f);
    printf("Double: %lf\n", d);
    printf("Character: %c\n", c);

}
```

4. #include <stdio.h>

```
int main() {  
    int num1, num2, total;  
    printf("Enter the first number: ");  
    scanf("%d", &num1);  
    printf("Enter the second number: ");  
    scanf("%d", &num2);  
    total = num1 + num2;  
    printf("Total: %d\n", total);  
  
}
```

5. #include <stdio.h>

```
int main() {  
    float num1, num2, average;  
    printf("Enter the first number: ");  
    scanf("%f", &num1);  
    printf("Enter the second number: ");  
    scanf("%f", &num2);  
    average = (num1 + num2) / 2;  
    printf("Average: %f\n", average);  
  
}
```

6. #include <stdio.h>

```
int main() {  
    char name[50];  
    int birthYear, Year, age;  
    printf("Enter the student's name: ");  
    scanf("%s", name);  
    printf("Enter the student's birth year: ");  
    scanf("%d", &birthYear);  
    Year = 2023;  
    age = Year - birthYear;  
    printf("Student Name: %s\n", name);  
    printf("Age: %d\n", age);  
}
```

7. #include <stdio.h>

```
int main() {
    float num1, num2, temp;
    printf("Enter the first number: ");
    scanf("%f", &num1);
    printf("Enter the second number: ");
    scanf("%f", &num2);
    printf("Before swap:\n");
    printf("First number: %.2f\n", num1);
    printf("Second number: %.2f\n", num2);
    temp = num1;
    num1 = num2;
    num2 = temp;
    printf("After swap:\n");
    printf("First number: %.2f\n", num1);
    printf("Second number: %.2f\n", num2);
}
```

Data input and output

1. #include <stdio.h>

```
int main() {
    int a;
    printf("HI, HOW OLD ARE YOU? ");
    scanf("%d", &a);
    printf("\n\nWELCOME %d\n", a);
    printf("LET'S BE FRIENDS!\n");
}
```

2. #include <stdio.h>

```
int main() {
    printf("%10d%5d%5d\n%10d%5d%5d\n%10d%5d%5d\n", 2, 4, 8, 3, 9, 27, 4, 16, 64);
}
```

3. #include <stdio.h>

```
int main() {  
    float d, t, s;  
    printf("Enter the distance traveled ");  
    scanf("%f", &d);  
    printf("Enter the time taken ");  
    scanf("%f", &t);  
    s = d / t;  
    printf("Average speed: %.2f \n", s);  
}
```

4. #include <stdio.h>

```
int main() {  
    float f, c;  
    printf("Enter temperature in degrees Fahrenheit: ");  
    scanf("%f", &f);  
    c =(f- 32)*5/9;  
    printf("Temperature in degrees Celsius: %.2f\n", c);  
}
```