## Q5.)

Write a programme that swaps values of two variables using a third variable.

```
1  //step 3
2
3  #include <stdio.h>
4
5  int main()
6  {
7     int a = 20;
8     int b = 10;
9
10     printf("Before swapping: a=%d, b=%d\n", a, b);
11
12     int c = a;
13     a = b;
14     b = c;
15
16     printf("After swapping: a=%d, b=%d\n", a, b);
17
18     return 0;
19  }
20
```

```
#include <stdio.h>

#include <stdio.h>

int main()

fint first_Number = 20;

int second_Number = 10;

printf("Before swapping: a=%d, b=%d\n", first_Number, second_Number);

int duplicate_variable = first_Number;

first_Number = second_Number;

second_Number = duplicate_variable;

printf("After swapping: a=%d, b=%d\n", first_Number, second_Number);

return 0;

return 0;

}
```

```
#include <stdio.h>

#int main()

int first_Number;

printf("Enter first number: ");

scanf("%d", &first_Number);

int second_Number;

printf("Enter second number: ");

scanf("%d", &second_Number);

printf("Enter second number: ");

scanf("%d", &second_Number);

printf("Before swapping: first number =%d, second number=%d\n", first_Number, second_Number);

int duplicate_variable = first_Number;

first_Number = second_Number;

second_Number = duplicate_variable;

printf("After swapping: first number =%d, second number=%d\n", first_Number, second_Number);

return 0;

return 0;
}
```

```
#include <stdio.h>

#include <stdio.h>

vint main()

{

int first_Number, second_Number, duplicate_variable;

printf("Enter first number: ");

scanf("%d", &first_Number);

printf("Enter second number: ");

scanf("%d", &second_Number);

printf("Before swapping: first number =%d, second number=%d\n", first_Number, second_Number);

duplicate_variable = first_Number;

first_Number = second_Number;

second_Number = duplicate_variable;

printf("After swapping: first number =%d, second number=%d\n", first_Number, second_Number);

return 0;

}
```