Experiment no – 08(a)

Aim: **Write a program to display the values using different data types and its address using pointer.**

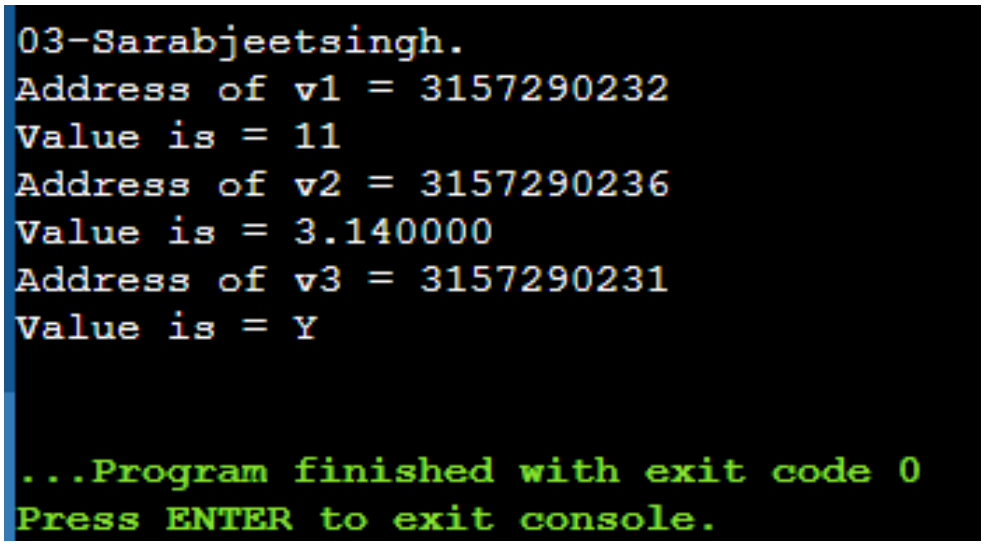
Algorithm:

- **i.** Start
- **ii.** Declare v1,v2,v3
- **iii.** Declare *p1,*p2,*p3 **iv.** Insert values
- **v.** Print result
- **vi.** Stop

Code:

```
#include <stdio.h>  int

main()

{ printf("03-Sarabjeetsingh.\n");

int v1;

float v2;

char v3; int

*p1; float

*p2; char

*p3;

v1=11;

v2=3.14;

v3='Y';

p1 = &v1; p2 = &v2; p3 = &v3; printf("Address of v1 = %u\n", &v1);

printf("Value is = %d\n", *p1); printf("Address of v2 = %u\n", &v2);

printf("Value is = %f\n", *p2); printf("Address of v3 = %u\n", &v3);

printf("Value is = %c\n", *p3);

return 0;

}
```

Output:



Experiment no – 08(b)

Aim: Write a program to perform addition and subtraction using pointer.

Algorithm:

i. Start
ii. Enter numbers
iii. Addition or Subtraction is performed iv. Display results
v. Stop

Code:

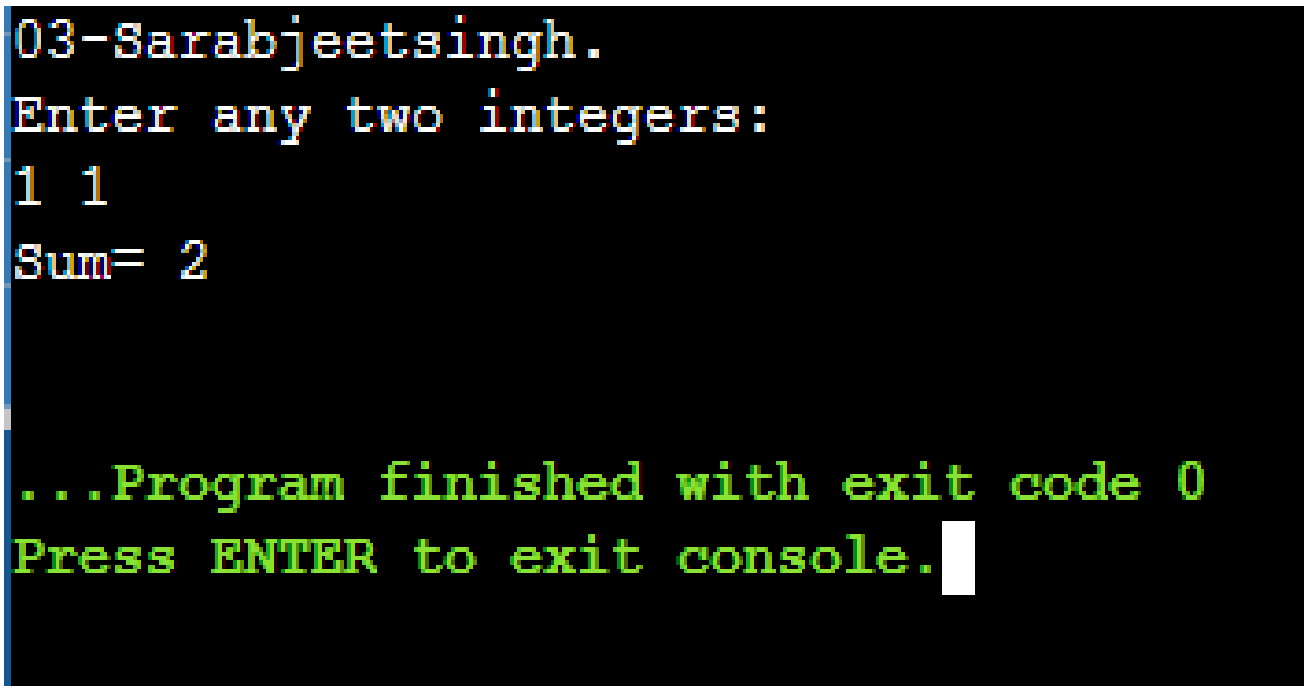
//Add//

```
#include<stdio.h> int
main()
{ printf("03-Sarabjeetsingh.\n");     int
num1 ,num2, *p,*q,sum;
printf("Enter any two integers:\n");
   scanf("%d%d", &num1,&num2);
```

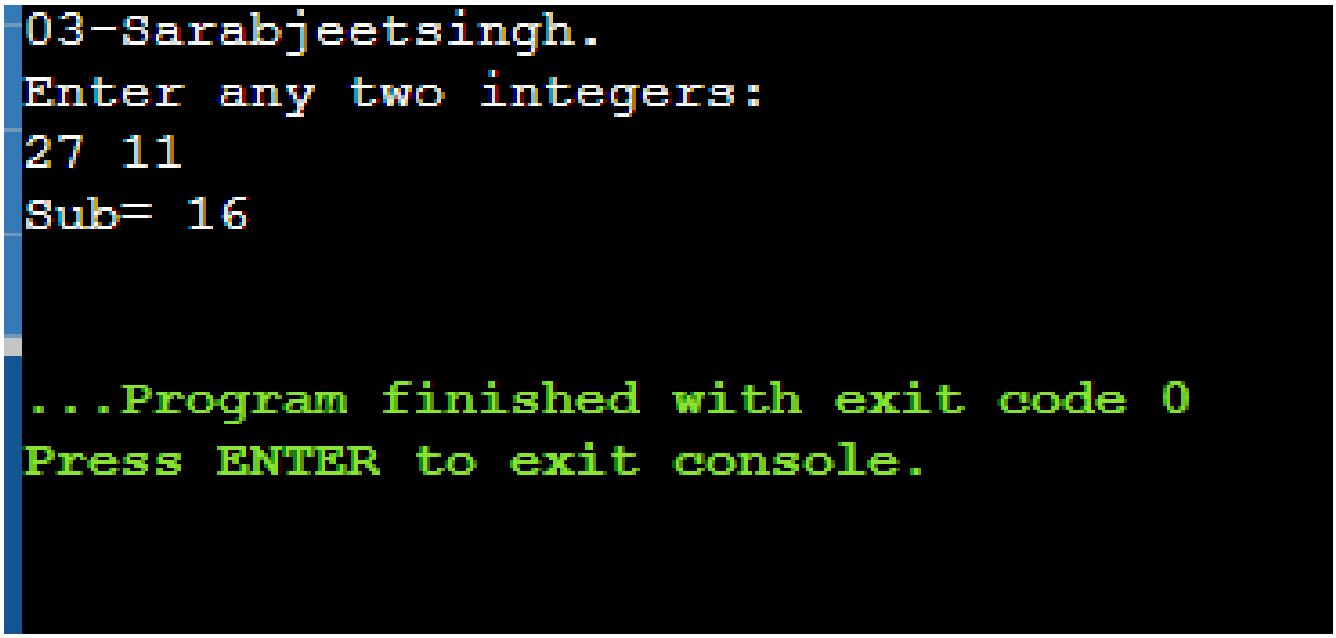
```
   p = &num1;
q = &num2;
sum = *p+*q;

   printf("Sum= %d\n",sum);

   return 0;
}

//Sub//

#include<stdio.h> int main() {
printf("03-Sarabjeetsingh.\n");     int
num1 ,num2, *p,*q,sub;
printf("Enter any two integers:\n");
   scanf("%d%d", &num1,&num2);
   p = &num1;
q = &num2;
sub = *p-*q;

   printf("Sub= %d\n",sub);

   return 0;
}
```

Output:

Add


03-Sarabjeetsingh.
Enter any two integers:
1 1
Sum= 2
...Program finished with exit code 0
Press ENTER to exit console.

Sub


03-Sarabjeetsingh.
Enter any two integers:
27 11
Sub= 16
...Program finished with exit code 0
Press ENTER to exit console.