

## 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("01-AlstonAlvares\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:**

```
Output:  
  
01-AlstonAlvares  
Address of v1 = 3606883000  
Value is = 11  
Address of v2 = 3606883004  
Value is = 3.140000  
Address of v3 = 3606882999  
Value is = Y
```

### 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("01-AlstonAlvares\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("01-AlstonAlvares\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

```
01-AlstonAlvares
Enter any two integers:
1 1
Sum= 2

...Program finished with exit code 0
Press ENTER to exit console. 
```

Sub

```
01-AlstonAlvares
Enter any two integers:
27 11
Sub= 16

...Program finished with exit code 0
Press ENTER to exit console. 
```