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

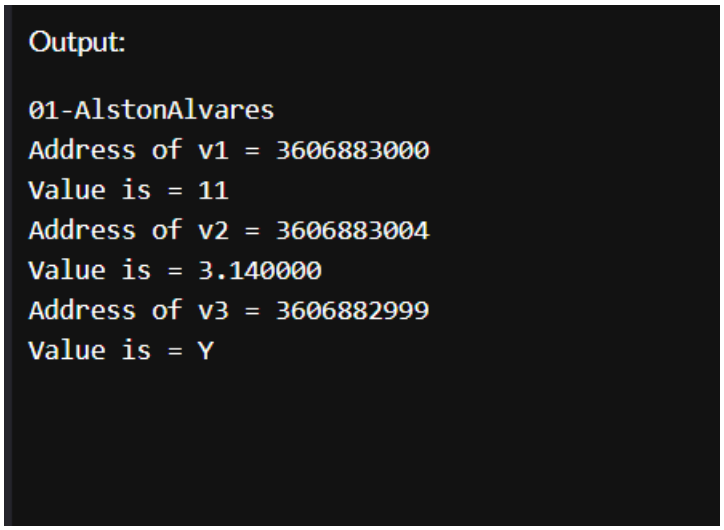
Code:

```
#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:



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:

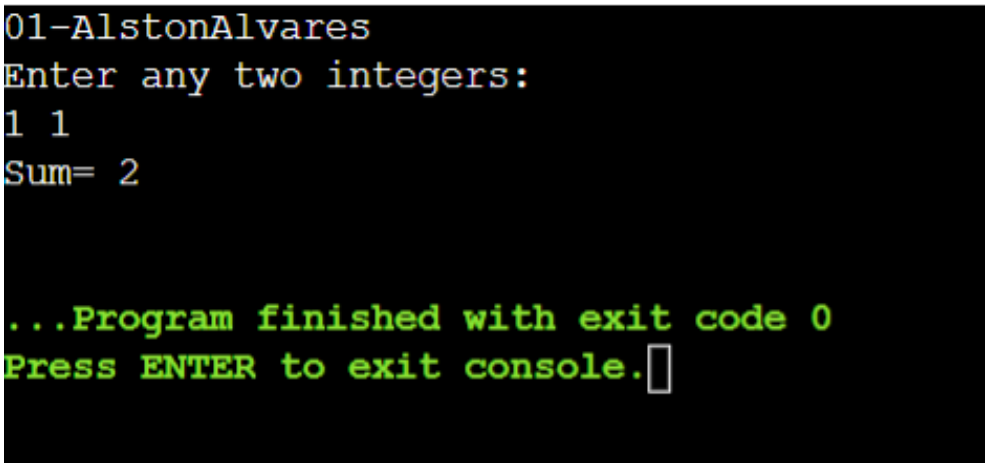
//Add//

```
#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



Sub