Datatypes and Format Specifiers Assignment

- 1. WAP to read the following information at run time and to display. Choose appropriate data type and format specifier.
 - 1. username [maximum of length 125
 - 2. age
 - 3. Salary [float]
 - 4. Designation code [as short type with values {1, 2, 3, 4, 5, 6}
 - 5. Gender [a single char field]

```
user64@trainux01: ~/Batch17Oct2024_189/Assignment/program
void getDetails();
int main()
               getDetails();
               return 0;
void getDetails()
               char username[125];
               int age;
               float salary;
               short code;
               char gender;
              printf("\n Enter username:");
scanf("%s,",username);
printf("\n Enter age:");
scanf("%d,",&age);
              printf("\n Enter sala
scanf("%f,",&salary);
               printf("\n
               scanf("%hd,",&code);
               printf("\n
              printf("\n Enter gender:");
scanf(" ");
scanf("%c,",&gender);
printf("\n\n");
printf("\nUsername:%s",username);
printf("\nAge:%d",age);
printf("\nSalary:%.2f",salary);
printf("\nDes Code:%d",code);
printf("\nGender:%c",gender);
printf("\n\n");
              printf("\n\n");
```

```
user64@trainux01:~/Batch17oct2024_189/Assignment/program$ vi data.c
user64@trainux01:~/Batch17oct2024_189/Assignment/program$ gcc data.c
user64@trainux01:~/Batch17oct2024_189/Assignment/program$ ./a.out

Enter username:Ashwini

Enter age:22

Enter salary:550000

Enter designation code:2

Enter gender:Female

Username:Ashwini
Age:22
Salary:550000.00
Des Code:2
Gender:F
```

2. WAP to read a user choice as 'y' or 'Y' or 'n' or 'N' and display read choice as "Yes" or "No" according to the input received.

```
'y' or 'Y' → display "Yes"
'n' or 'N' → display "No"
```

for any other character received \rightarrow display "invalid character" and exit

```
Yesuser64@trainux01:~/Batch17Oct2024_189/Assignment/program$ vi dataa.c user64@trainux01:~/Batch17Oct2024_189/Assignment/program$ gcc dataa.c user64@trainux01:~/Batch17Oct2024_189/Assignment/program$ ./a.out Enter y/n:y
Yes

user64@trainux01:~/Batch17Oct2024_189/Assignment/program$ ./a.out
Enter y/n:n
No
```

3. WAP to read a number in decimal (0-127) and display it in 2 digit hex characer.

```
user64@trainux01:~/Batch170ct2024_189/Assignment/program$ vi dataaa.c
user64@trainux01:~/Batch170ct2024_189/Assignment/program$ gcc dataaa.c
user64@trainux01:~/Batch170ct2024_189/Assignment/program$ ./a.out
Enter Decimal12

Hexadecimal value is:C

user64@trainux01:~/Batch170ct2024_189/Assignment/program$ ./a.out
Enter Decimal56

Hexadecimal value is:38

user64@trainux01:~/Batch170ct2024_189/Assignment/program$ ./a.out
Enter Decimal10

Hexadecimal value is:A
```