Compiler Design Week 1

IMPLEMENTATION OF SYMBOL TABLE

Code:

```
#include<stdio.h>
#include<ctype.h>
#include<stdlib.h>
#include<string.h>
int main()
   int i=0, j=0, n;
   void *p;
   char ch, b[15],c;
   printf("Expression terminated by $:");
   while((c=getchar())!='$')
       b[i]=c;
   printf("Given Expression:");
   while(i<=n)</pre>
       printf("%c",b[i]);
   printf("\n Symbol Table\n");
   printf("Symbol \t addr \t type");
   while(j<=n)</pre>
       c=b[j];
       if(isalpha(c))
           p=malloc(c);
           printf("\n%c \t %d \t identifier\n",c,p);
           j++;
           if(ch=='+'||ch=='-'||ch=='*'||ch=='/')
               p=malloc(ch);
               printf("\n %c \t %d \t operator\n",ch,p);
               j++;
```

Output

