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Roll no:8

Assignment 5

1] C Program to check *number* is Palindrome or not.

```
File Edit Search Run Compile Debug Project Options Window Help

PALINDRO.C

PALINDRO.C

[1]

#include (stdio.h)

int main(){

int n, reversed = 0, remainder, original;

printf( "there an indeper");

scanf( "w", &n);

original = n;

while(n != 0){

remainder = n × 10;

reversed = reversed * 10 + remainder;

}

if(original == reversed)

printf( "wd is a pulindrome.", original);

else

printf( "wd is a pulindrome.", original);

return 0;

}

15:18

Thelp Alt-F8 Next Msg Alt-F7 Prev Msg Alt-F9 Compile F9 Make F10 Menu
```

Output:

```
Enter an integer: 545
545 is a palindrome.
...Program finished with exit code 0
Press ENTER to exit console.
```

2] C Program to check String is Palindrome or not.

```
File Edit Search Run Compile Debug Project Options Window Help

PALIN.C

#include(stdio.h)
#include(string.h)
int main(){

char str[] = {"whohe"};

int l = 0;

int h = strlen(str) - 1;

while(h > 1){

if(str[]++] != str[h--]){

printf("ar is not a polindrome", str);

return 0;

}

printf("ar is not a polindrome", str);

return 0;

}

14:18

Fi Help Alt-F8 Next Msg Alt-F7 Prev Msg Alt-F9 Compile F9 Make F10 Menu
```

Output:

```
abbba is a palindrome
...Program finished with exit code 0
Press ENTER to exit console.
```

3] C Program to Check String is Palindrome using Stack.

```
# File Edit Search Run Compile Debug Project Options Window Help
## include <malloc.h>
## include <stdio.h>
## include <stdib.h>
## include <stdip.h>
## include <stdip.h
```

```
int length = strlen(str);
stack = (char*)malloc(length * sizeof(char));
int i, mid = length / Z;
for(i = 0; i< mid; i++){
    push(str[i]);
}
if(length : Z != 0){
    i*+;
}
while(str[i] != '\0'){
    char ele = pop();
    if(ele != str[i])
        return 0;
    i++;
}
return 1;
}
int main(){
    char str[] = 'madam';
    if(isPalindrome(str)){
        printf("Mea");
        1:1</pre>
F1 Help F2 Save F3 Open Alt-F9 Compile F9 Make F10 Menu
```

Output:

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