Task - 3A

qSolving Programming problems by implementing necessary Control qstatements.

im :-

To qSDlve programming problems by implementing the cessary Control qstatements.

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Take integer Variable x.

Divide the Variable x with (x - 1 to 2)

f A is divisible by any value (x-1 to 2) it is not pri

Print result.

```
#include <stdio.h> #include
<string.h>
int main() {
char sentence[100]; char
replace_char;
printf("Enter a sentence:");
fgets(sentence,100,stdin);
printf("Enter a character to
replace:"); scanf("%c"
&replace_char);
for (inti=
0;i<strlen(sentence);
i++) { if (sentence[i] ==
replace_char) {
sentence[1]= #;
}
printf("Modified sentence:
%s", sentence); return 0;
}
```

Task 3b

Aim :-

To write a program that generates a random number and sks the user to guess what the number is. If the user's guess s higher than the random number, the program should isplay "Too high, try again". If the user's guess is lower than he random number, the program should display "Too low, try ain". The program should use a loop that repeats until the er correctly guesses the random number.

gorithm

Generate a random number between a specified range.
Initialize a loop that will run until the user correctly guesses e random number.
Ask the user to enter a guess is equal to the random.
If it is, exit the loop and print a message congratulating e user.
If the guess is higher than the random number, print a essage saying "Too high, try again".
If the guess is lower than the random number, print a ssage saying "Too low, try again".
Repeat Step 3-6 until the user correctly guesses the random umber.
End the program.

```
#include <stdio.h>
#include <stdlib.h>
#include <time.h>
int main() {
srand(time (O));
int randomNumber =
rand( % 100 + 1; int guess;
do {
printf("Guess the number
between 1 and 100: ");
scanf("%d", &guess);
if (guess >
randomNumber) {
printf("Too high, try again.
(n");
) else if (guess <
randomNumber) {
printf("Too low, try again.
(n");
} while (guess !=
randomNumber);
printf("Congratulations!
You guessed the number
%d.\n" randomNumber);
return O;
}
```

Output

```
Guess the number between 1 and 100 : 80
Too low, try again
Guess the number between 1 and 100 : 89
Too high, try again
Guess the number between 1 and 100 : 81
Too low, try again
Guess the number between 1 and 100 : 83
Congratulations! You guessed the number 83
```

VEL TECH - CSE	
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PERFORMANCE (5)	5
RESULT AND ANALYSIS (3)	3
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RECORD (4)	4
TOTAL (15)	15
SIGN WITH DATE	22/2

Result :-

Thus, the programs are verified and executed successfully.