Q. WRITE A PROGRAM TO READ YOUR NAME, DISPLAY ITS LENGTH AND PRINT UR NAME LENGTH NO. OF TIMES.

1.WHILE LOOP: /\*

Program name:053\_namelendisplayloop.c

Task:To read a name and display it length no. of times

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#include<stdio.h>

#include<string.h>//contains the stings header file

int main()

{

char name[50];

int len=0,n=1;

printf("Enter ur name:");

scanf("%s",&name);

len=strlen(name);//The function strlen() is used to calculate the length of a string

printf("The length of %s is %d characters\n",name,len);

while(n<=len){

printf("%d.%s\n",n,name);

n++;

}

return 0;

}

2.DO WHILE LOOP: #include<stdio.h>

#include<string.h>//contains the stings header file

int main()

{

char name[50];

int len=0,n=1;

printf("Enter ur name:");

scanf("%s",&name);

len=strlen(name);//The function strlen() is used to calculate the length of a string

printf("The length of %s is %d characters\n",name,len);

do{

printf("%d.%s\n",n,name);

n++;

}

while(n<=len);

return 0;

}

3.FOR LOOP: #include<stdio.h>

#include<string.h>//contains the stings header file

int main()

{

char name[50];

int len=0,n;

printf("Enter ur name:");

scanf("%s",&name);

len=strlen(name);//The function strlen() is used to calculate the length of a string

printf("The length of %s is %d characters\n",name,len);

for(n=1;n<=len;n++){

printf("%d.%s\n",n,name);

}

return 0;

}

OUTPUT:THE OUTCOME IS THE SAME FOR ALL THREE TYPES OF LOOPS.

