**EXPERIMENT NO. 1**

**OBJECTIVE:** Write a C program to print all alphabets from a to z.

**LANGUAGE USED:** C

**THEORY:** In this program we will print a integer value from 97 to 122 as a character value so that it can print alphabets a to z.

**PROGRAM:** #include<stdio.h>

int main()

{

int i;

for(i=97;i<=122;i++)

{

printf("%c",i);

}

return 0;

}

**OUTPUT:**

abcdefghijklmnopqrstuvwxyz

**EXPERIMENT NO. 2**

**OBJECTIVE:** Write a C program to print all even numbers between 1 to 100.

**LANGUAGE USED:** C

**THEORY:** Program will give only those numbers which are divisible by 2.

**PROGRAM:** #include<stdio.h>

int main()

{

int i;

for(i=1;i<=100;i++)

{

if(i%2==0)

printf("%d",i);

}

return 0;

}

**OUTPUT:**

2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 34 36 38 40 42 44 46 48 50 52 54 56 58 60 62 64 66 68 70 72 74 76 78 80 82 84 86 88 90 92 94 96 98 100

**EXPERIMENT NO. 3**

**OBJECTIVE:** Write a C program to find sum of all odd numbers between 1 to n.

**LANGUAGE USED:** C

**THEORY:** First user will enter upto which number he/she wants the sum and then we will add all those numbers which are not divisible by 2.

**PROGRAM:** #include<stdio.h>

int main()

{

int i,sum=0,n;

printf("Enter the number upto which you want the sum: ");

scanf("%d",&n);

for(i=1;i<=n;i++)

{

if(i%2!=0)

{

sum=sum+i;

}

}

printf("sum =%d",sum);

return 0;

}

**OUTPUT:**

Enter the number upto which you want the sum: 6

sum =9

**EXPERIMENT NO. 4**

**OBJECTIVE:** Write a C program to print multiplication table of any number.

**LANGUAGE USED:** C

**THEORY:** User will enter a number and we will find its table.

**PROGRAM:** #include<stdio.h>

int main()

{

int i,n,table=1;

printf("Enter a number whose table you want: ");

scanf("%d",&n);

for(i=1;i<=10;i++)

{

table=i\*n;

printf("%d \* %d = %d",n,i,table);

printf("\n");

}

return 0;

}

**OUTPUT:**

Enter a number whose table you want: 2

2 \* 1 = 2                                                              2 \* 2 = 4                                                              2 \* 3 = 6                                                              2 \* 4 = 8                                                              2 \* 5 = 10                                                             2 \* 6 = 12                                                             2 \* 7 = 14                                                             2 \* 8 = 16                                                             2 \* 9 = 18                                                             2 \* 10 = 20

**EXPERIMENT NO. 5**

**OBJECTIVE:** Write a C program to count number of digits in a number.

**LANGUAGE USED:** C

**THEORY:** We will divide the number by 10 and we will take a variable count which will increase every time it divides by 10 and it reaches 0.

**PROGRAM:** #include<stdio.h>

int main()

{

int i,n,count=0;

printf("Enter a number: ");

scanf("%d",&n);

while(n!=0)

{

n=n/10;

count++;

}

printf("The number of digits in the given number is = %d",count);

return 0;

}

**OUTPUT:**

Enter a number: 123

The number of digits in the given number is = 3

**EXPERIMENT NO. 6**

**OBJECTIVE:** Write a C program to find first and last digit of a number.

**LANGUAGE USED:** C

**THEORY:** We will divide the number by 10 to find first digit and we will find modulus of number to find the last number.

**PROGRAM:** #include<stdio.h>

int main()

{

int n,f,l;

printf("Enter a number: ");

scanf("%d",&n);

f=n;

while(f>=10)

{

f=f/10;

}

printf("first digit is = %d",f);

l=n%10;

printf("\nLast digit is = %d",l);

return 0;

}

**OUTPUT:**

Enter a number: 1234                                                   first digit is = 1                                                     Last digit is = 4

**EXPERIMENT NO. 7**

**OBJECTIVE:** Write a C program to swap first and last digit of a number.

**LANGUAGE USED:** C

**THEORY:** First we will find first and last digit of the number and the we will swap them using a temporary variable temp.

**PROGRAM:** #include<stdio.h>

int main()

{

int n,f,l,temp;

printf("Enter a number here: ");

scanf("%d",&n);

f=n;

while(f>=10)

{

f=f/10;

}

printf("first digit is = %d",f);

l=n%10;

printf("\nLast digit is = %d",l);

temp=f;

f=l;

l=temp;

printf("\nNow first digit is %d and last digit is %d",f,l);

return 0;

}

**OUTPUT:**

Enter a number here: 1234                                              first digit is = 1                                                     Last digit is = 4                                                      Now first digit is 4 and last digit is 1

**EXPERIMENT NO. 8**

**OBJECTIVE:** Write a C program to find frequency of each digit in each integer.

**LANGUAGE USED:** C

**THEORY:** The program will find the number of times each and every digit occur in a number.

**PROGRAM:** #include<stdio.h>

int main()

{

int n,j,i,count=0,r;

printf("Enter a number here: ");

scanf("%d",&n);

for(i=0;i<10;i++)

{

printf("The frequency of %d is = ",i);

count=0;

for(j=n;j>0;j=j/10)

{

r=j%10;

if(r==i)

{

count++;

}

}

printf("%d",count);

printf("\n");

}

return 0;

}

**OUTPUT:**

Enter a number here: 11123467                                          The frequency of 0 is = 0                                              The frequency of 1 is = 3                                              The frequency of 2 is = 1                                              The frequency of 3 is = 1                                              The frequency of 4 is = 1                                              The frequency of 5 is = 0                                              The frequency of 6 is = 1                                              The frequency of 7 is = 1                                              The frequency of 8 is = 0                                              The frequency of 9 is = 0

**EXPERIMENT NO. 9**

**OBJECTIVE:** Write a C program to enter a number and print it in words.

**LANGUAGE USED:** C

**THEORY:** First we will let the user to enter any number then we will convert it into words using ASCII values and all.

**PROGRAM:** #include<stdio.h>

int main()

{

int n,num=0,i;

printf("Enter a number here: ");

scanf("%d",&n);

while(n!=0)

{

num=(num\*10)+(n%10);

n/=10;

}

for(i=num;i>0;i=i/10)

{

switch(i%10)

{

case 0: printf("Zero ");

break;

case 1: printf("One ");

break;

case 2: printf("Two ");

break;

case 3: printf("Three ");

break;

case 4: printf("Four ");

break;

case 5: printf("Five ");

break;

case 6: printf("Six ");

break;

case 7: printf("Seven ");

break;

case 8: printf("Eight ");

break;

case 9: printf("Nine ");

break;

}

}

printf("\n");

return 0;

}

**OUTPUT:**

Enter a number here: 9594623                                           Nine Five Nine Four Six Two Three

**EXPERIMENT NO. 10**

**OBJECTIVE:** Write a C program to print all ASCII character with their values.

**LANGUAGE USED:** C

**THEORY:** Program will print all characters with their ASCII.

**PROGRAM:** #include<stdio.h>

int main()

{

int i;

for(i=0;i<=255;i++)

{

printf("ASCII value of the character %c = %d\n",i,i);

}

return 0;

}

**OUTPUT:**

ASCII value of the character = 0

ASCII value of the character ☺ = 1

ASCII value of the character ☻ = 2

ASCII value of the character ♥ = 3

ASCII value of the character ♦ = 4

ASCII value of the character ♣ = 5

ASCII value of the character ♠ = 6

ASCII value of the character = 7

ASCII value of the character = 8

ASCII value of the character = 9

ASCII value of the character

= 10

ASCII value of the character ♂ = 11

ASCII value of the character ♀ = 12

= 13 value of the character

ASCII value of the character ♫ = 14

ASCII value of the character ☼ = 15

ASCII value of the character ► = 16

ASCII value of the character ◄ = 17

ASCII value of the character ↕ = 18

ASCII value of the character ‼ = 19

ASCII value of the character ¶ = 20

ASCII value of the character § = 21

ASCII value of the character ▬ = 22

ASCII value of the character ↨ = 23

ASCII value of the character ↑ = 24

ASCII value of the character ↓ = 25

ASCII value of the character → = 26

ASCII value of the character ← = 27

ASCII value of the character ∟ = 28

ASCII value of the character ↔ = 29

ASCII value of the character ▲ = 30

ASCII value of the character ▼ = 31

ASCII value of the character = 32

ASCII value of the character ! = 33

ASCII value of the character " = 34

ASCII value of the character # = 35

ASCII value of the character $ = 36

ASCII value of the character % = 37

ASCII value of the character & = 38

ASCII value of the character ' = 39

ASCII value of the character ( = 40

ASCII value of the character ) = 41

ASCII value of the character \* = 42

ASCII value of the character + = 43

ASCII value of the character , = 44

ASCII value of the character - = 45

ASCII value of the character . = 46

ASCII value of the character / = 47

ASCII value of the character 0 = 48

ASCII value of the character 1 = 49

ASCII value of the character 2 = 50

ASCII value of the character 3 = 51

ASCII value of the character 4 = 52

ASCII value of the character 5 = 53

ASCII value of the character 6 = 54

ASCII value of the character 7 = 55

ASCII value of the character 8 = 56

ASCII value of the character 9 = 57

ASCII value of the character : = 58

ASCII value of the character ; = 59

ASCII value of the character < = 60

ASCII value of the character = = 61

ASCII value of the character > = 62

ASCII value of the character ? = 63

ASCII value of the character @ = 64

ASCII value of the character A = 65

ASCII value of the character B = 66

ASCII value of the character C = 67

ASCII value of the character D = 68

ASCII value of the character E = 69

ASCII value of the character F = 70

ASCII value of the character G = 71

ASCII value of the character H = 72

ASCII value of the character I = 73

ASCII value of the character J = 74

ASCII value of the character K = 75

ASCII value of the character L = 76

ASCII value of the character M = 77

ASCII value of the character N = 78

ASCII value of the character O = 79

ASCII value of the character P = 80

ASCII value of the character Q = 81

ASCII value of the character R = 82

ASCII value of the character S = 83

ASCII value of the character T = 84

ASCII value of the character U = 85

ASCII value of the character V = 86

ASCII value of the character W = 87

ASCII value of the character X = 88

ASCII value of the character Y = 89

ASCII value of the character Z = 90

ASCII value of the character [ = 91

ASCII value of the character \ = 92

ASCII value of the character ] = 93

ASCII value of the character ^ = 94

ASCII value of the character \_ = 95

ASCII value of the character ` = 96

ASCII value of the character a = 97

ASCII value of the character b = 98

ASCII value of the character c = 99

ASCII value of the character d = 100

ASCII value of the character e = 101

ASCII value of the character f = 102

ASCII value of the character g = 103

ASCII value of the character h = 104

ASCII value of the character i = 105

ASCII value of the character j = 106

ASCII value of the character k = 107

ASCII value of the character l = 108

ASCII value of the character m = 109

ASCII value of the character n = 110

ASCII value of the character o = 111

ASCII value of the character p = 112

ASCII value of the character q = 113

ASCII value of the character r = 114

ASCII value of the character s = 115

ASCII value of the character t = 116

ASCII value of the character u = 117

ASCII value of the character v = 118

ASCII value of the character w = 119

ASCII value of the character x = 120

ASCII value of the character y = 121

ASCII value of the character z = 122

ASCII value of the character { = 123

ASCII value of the character | = 124

ASCII value of the character } = 125

ASCII value of the character ~ = 126

ASCII value of the character ⌂ = 127

ASCII value of the character Ç = 128

ASCII value of the character ü = 129

ASCII value of the character é = 130

ASCII value of the character â = 131

ASCII value of the character ä = 132

ASCII value of the character à = 133

ASCII value of the character å = 134

ASCII value of the character ç = 135

ASCII value of the character ê = 136

ASCII value of the character ë = 137

ASCII value of the character è = 138

ASCII value of the character ï = 139

ASCII value of the character î = 140

ASCII value of the character ì = 141

ASCII value of the character Ä = 142

ASCII value of the character Å = 143

ASCII value of the character É = 144

ASCII value of the character æ = 145

ASCII value of the character Æ = 146

ASCII value of the character ô = 147

ASCII value of the character ö = 148

ASCII value of the character ò = 149

ASCII value of the character û = 150

ASCII value of the character ù = 151

ASCII value of the character ÿ = 152

ASCII value of the character Ö = 153

ASCII value of the character Ü = 154

ASCII value of the character ¢ = 155

ASCII value of the character £ = 156

ASCII value of the character ¥ = 157

ASCII value of the character ₧ = 158

ASCII value of the character ƒ = 159

ASCII value of the character á = 160

ASCII value of the character í = 161

ASCII value of the character ó = 162

ASCII value of the character ú = 163

ASCII value of the character ñ = 164

ASCII value of the character Ñ = 165

ASCII value of the character ª = 166

ASCII value of the character º = 167

ASCII value of the character ¿ = 168

ASCII value of the character ⌐ = 169

ASCII value of the character ¬ = 170

ASCII value of the character ½ = 171

ASCII value of the character ¼ = 172

ASCII value of the character ¡ = 173

ASCII value of the character « = 174

ASCII value of the character » = 175

ASCII value of the character ░ = 176

ASCII value of the character ▒ = 177

ASCII value of the character ▓ = 178

ASCII value of the character │ = 179

ASCII value of the character ┤ = 180

ASCII value of the character ╡ = 181

ASCII value of the character ╢ = 182

ASCII value of the character ╖ = 183

ASCII value of the character ╕ = 184

ASCII value of the character ╣ = 185

ASCII value of the character ║ = 186

ASCII value of the character ╗ = 187

ASCII value of the character ╝ = 188

ASCII value of the character ╜ = 189

ASCII value of the character ╛ = 190

ASCII value of the character ┐ = 191

ASCII value of the character └ = 192

ASCII value of the character ┴ = 193

ASCII value of the character ┬ = 194

ASCII value of the character ├ = 195

ASCII value of the character ─ = 196

ASCII value of the character ┼ = 197

ASCII value of the character ╞ = 198

ASCII value of the character ╟ = 199

ASCII value of the character ╚ = 200

ASCII value of the character ╔ = 201

ASCII value of the character ╩ = 202

ASCII value of the character ╦ = 203

ASCII value of the character ╠ = 204

ASCII value of the character ═ = 205

ASCII value of the character ╬ = 206

ASCII value of the character ╧ = 207

ASCII value of the character ╨ = 208

ASCII value of the character ╤ = 209

ASCII value of the character ╥ = 210

ASCII value of the character ╙ = 211

ASCII value of the character ╘ = 212

ASCII value of the character ╒ = 213

ASCII value of the character ╓ = 214

ASCII value of the character ╫ = 215

ASCII value of the character ╪ = 216

ASCII value of the character ┘ = 217

ASCII value of the character ┌ = 218

ASCII value of the character █ = 219

ASCII value of the character ▄ = 220

ASCII value of the character ▌ = 221

ASCII value of the character ▐ = 222

ASCII value of the character ▀ = 223

ASCII value of the character α = 224

ASCII value of the character ß = 225

ASCII value of the character Γ = 226

ASCII value of the character π = 227

ASCII value of the character Σ = 228

ASCII value of the character σ = 229

ASCII value of the character µ = 230

ASCII value of the character τ = 231

ASCII value of the character Φ = 232

ASCII value of the character Θ = 233

ASCII value of the character Ω = 234

ASCII value of the character δ = 235

ASCII value of the character ∞ = 236

ASCII value of the character φ = 237

ASCII value of the character ε = 238

ASCII value of the character ∩ = 239

ASCII value of the character ≡ = 240

ASCII value of the character ± = 241

ASCII value of the character ≥ = 242

ASCII value of the character ≤ = 243

ASCII value of the character ⌠ = 244

ASCII value of the character ⌡ = 245

ASCII value of the character ÷ = 246

ASCII value of the character ≈ = 247

ASCII value of the character ° = 248

ASCII value of the character ∙ = 249

ASCII value of the character · = 250

ASCII value of the character √ = 251

ASCII value of the character ⁿ = 252

ASCII value of the character ² = 253

ASCII value of the character ■ = 254

ASCII value of the character   = 255