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9. Menu driven code convertor –
                    binary to decimal and vice versa
                    binary to hexa and vice versa
                    binary to octal and vice versa
                    decimal to hexa and vice versa
                    decimal to octal and vice versa
                    octal to hexa and vice versa
codes:
ong dec to bin(long);
long dec to oct(long);
long dec to hexa(long);
int main()
int i,j,q;
printf("Press 1 for DEC to BIN\n");
printf("Press 2 for DEC to OCT\n");
printf("Press 3 for DEC to HEXA\n");
scanf("%d",&i);
switch(i)
{
case 1:
long k,j;
printf("Enter the no.");
scanf("%d",&j);
printf("The Equivalent Binary is\n ");
dec to bin(j);
break;
case 2:
long y,x;
printf("Enter the no.");
scanf("\%d",&x);
printf("The Equivalent octal is\n ");
dec to oct(x);
break;
case 3:
long g,h;
printf("Enter the no.");
scanf("%d",&h);
printf("The Equivalent hexadecimal is\n ");
dec to hexa(h);
break:
default:
break;
system("Pause");
return 0;
long dec to bin(long i)
long j[100],k,l=0,m;
i[0]=k=1;
while(i!=0)
i[1]=i\%2;
i=int(i/2);
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1++:
for(m=1-1;m>=0;m--)
printf("%d ",j[m]);
return 0;
long dec to oct(long i)
long j[100],k,l,m;
i[0]=k=1;
1=0;
while(i!=0)
j[1]=i%8;
i=int(i/8);
1++;
for(m=1;m>=0;m--)
printf("%d",j[m]);
return 0;
long dec to bin(long);
long dec to oct(long);
long dec to hexa(long);
int main()
int i,j,q;
printf("Press 1 for DEC to BIN\n");
printf("Press 2 for DEC to OCT\n");
printf("Press 3 for DEC to HEXA\n");
scanf("%d",&i);
switch(i)
{
case 1:
long k,j;
printf("Enter the no.");
scanf("%d",&j);
printf("The Equivalent Binary is\n ");
dec to bin(j);
break;
case 2:
long y,x;
printf("Enter the no.");
scanf("%d",&x);
printf("The Equivalent octal is\n ");
dec to oct(x);
break:
case 3:
```

```
long g,h;
printf("Enter the no.");
scanf("%d",&h);
printf("The Equivalent hexadecimal is\n ");
dec to hexa(h);
break;
default:
break;
system("Pause");
return 0;
}
long dec_to_bin(long i)
long j[100],k,l=0,m;
j[0]=k=1;
while(i!=0)
j[1]=i%2;
i=int(i/2);
1++;
for(m=l-1;m>=0;m--)
printf("%d ",j[m]);
return 0;
long dec_to_oct(long i)
long j[100],k,l,m;
j[0]=k=1;
1=0;
while(i!=0)
j[1]=i%8;
i=int(i/8);
1++;
for(m=1;m>=0;m--)
printf("%d",j[m]);
return 0;
long dec_to_hexa(long i)
char j[100],k,l=0,m,n=65;
j[0]=k=1;
while(i!=0)
j[1]=i%16;
i=int(i/16);
1++;
for(m=1-1;m>=0;m--)
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if(j[m]>=10)
n=n+j[m]-10;
printf("%c\n",n);
else
printf("%d\n",j[m]);
return 0;
void BinToHex(int bin) { int hex=0, mul=1, count=1, rem; while(bin!=0) { rem = bin%10; hex = hex + (rem*mul); i
f(count\%4==0) { if(hex<10) hexnum[i] = hex+48; else hexnum[i] = hex+55; mul = 1; hex = 0; count = 1; i++; } else
{ mul = mul*2; count++; } bin = bin/10; } if(count!=1) hexnum[i] = hex+48; if(count==1) i--; }
int binaryToDecimal(int n)
  int num = n;
  int dec_value = 0;
  // Initializing base value to 1, i.e 2^0
  int base = 1;
  int temp = num;
  while (temp) {
    int last_digit = temp % 10;
    temp = temp / 10;
    dec_value += last_digit * base;
    base = base * 2;
  }
```

return dec_value;

```
int octalToDecimal(int n)
  int num = n;
  int dec_value = 0;
  // Initializing base value
  // to 1, i.e 8^0
  int base = 1;
  int temp = num;
  while (temp)
  {
    // Extracting last digit
     int last_digit = temp % 10;
     temp = temp / 10;
    // Multiplying last digit with
    // appropriate base value and
    // adding it to dec_value
     dec_value += last_digit * base;
    base = base * 8;
```

}

```
return dec_value;
```